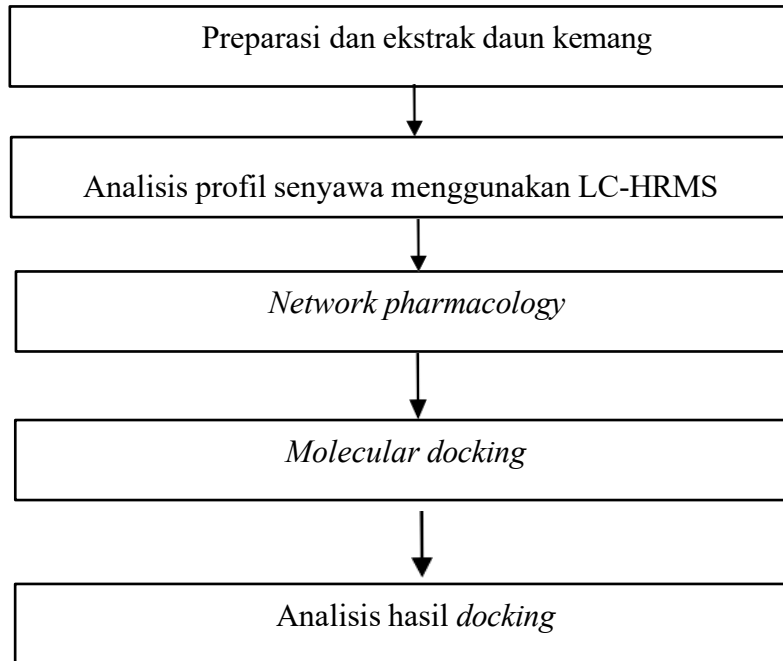
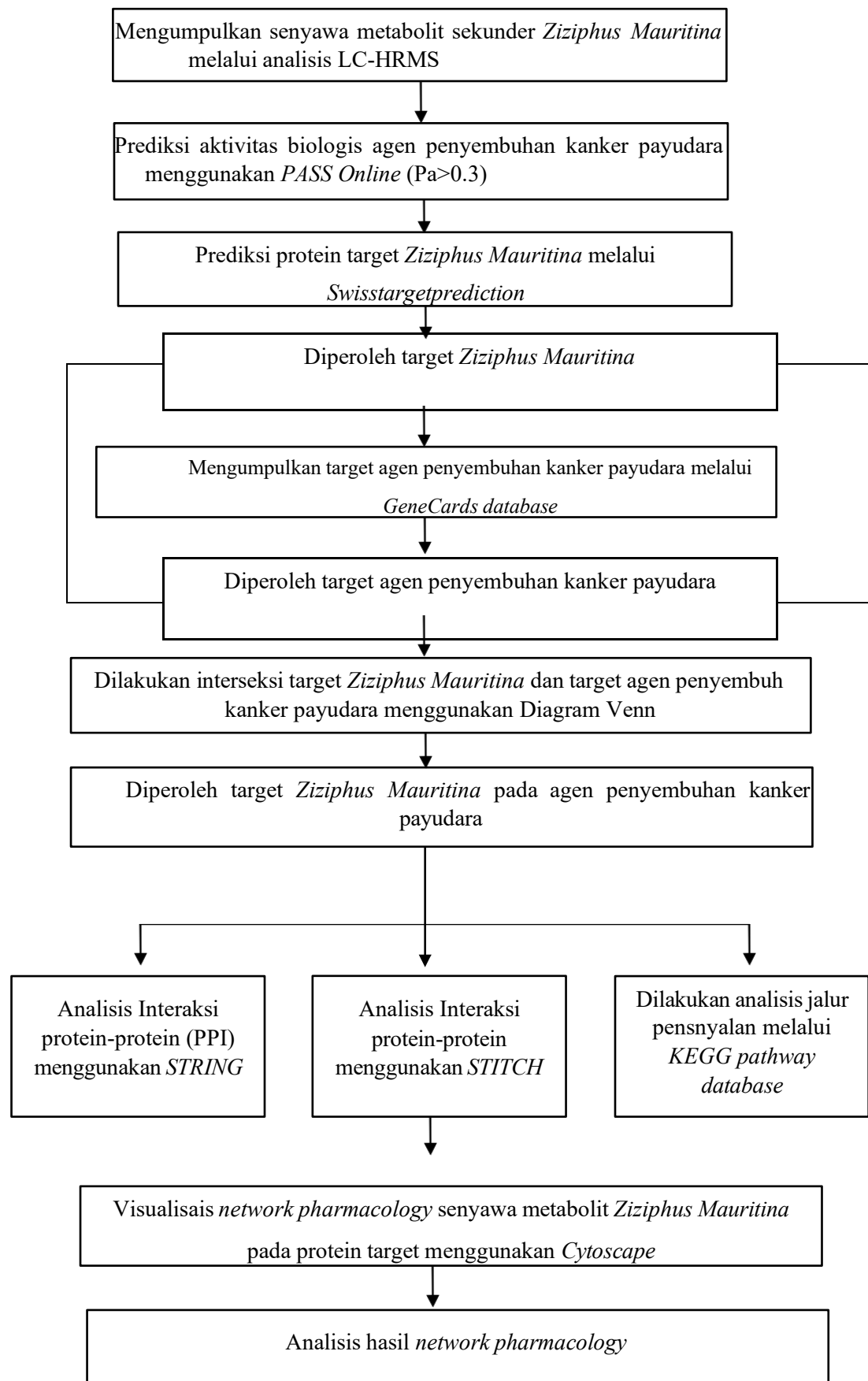


## LAMPIRAN

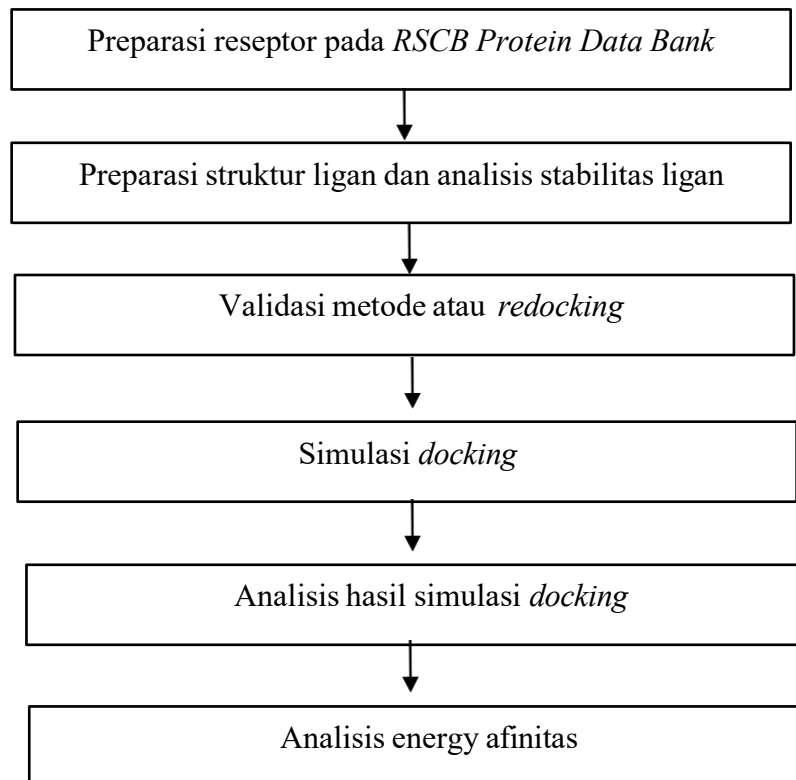
### Lampiran 1. Skema Kerja Umum



## Lampiran 2. Skema Network Pharmacology



### Lampiran 3. Skema Molecular Docking



#### Lampiran 4. Persentase Bobot Rendemen Ekstrak Kental Daun

Bobot Simplisia (g)	Bobot Ekstrak (g)
50,6298	5,6298

$$\text{Persentase bobot rendemen} = \frac{\text{bobot ekstrak (g)}}{\text{bobot simplisia (g)}} \times 100\%$$

$$\text{Persentase bobot rendemen} = \frac{5,6298 \text{ g}}{50,6298 \text{ g}}$$

$$\text{Persentase bobot rendemen} = 11,24\%$$

Persentase bobot rendemen ekstrak daun kemang sebesar 11,24 %

**Lampiran 5. Daftar Senyawa Fitokimia Daun Kemang Hasil Analisa dengan LC-HRMS**

Name	Formula	RT [min]	Area (Max.)
Isophorone	C9 H14 O	7,766	3942625151
Indane	C9 H10	12,75	1100767134
Myricetin	C15 H10 O8	5,553	1024853338
2-Amino-1,3,4-octadecanetriol	C18 H39 N O3	9,761	655002717,8
Myricitrin	C21 H20 O12	5,552	640024746,7
2-[(5Z)-5-tetradecenyl]cyclobutanone	C18 H32 O	14,631	587574762
b,e-Carotene-3,3'-diol	C40 H56 O2	17,246	561161818,7
Bis(4-ethylbenzylidene)sorbitol	C24 H30 O6	11,386	529124490,3
Quercetin	C15 H10 O7	6,229	478994233,4
Betaine	C5 H11 N O2	0,789	475643400
(+)-ar-Turmerone	C15 H20 O	12,75	445233077,8
sinensal	C15 H22 O	13,335	424892566,4
Indane	C9 H10	13,379	395945031,1
15-cis-4,4'-diapophytoene	C30 H48	18,574	382891987,2
ZINGEROL	C11 H16 O3	5,95	364736148,6
(3beta,24R,24'R)-fucosterol epoxide	C29 H48 O2	17,879	333867981,7
Choline	C5 H13 N O	0,737	292018995
Echinonone	C40 H54 O	17,376	285547641,3
2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-3- {[(2S,3R,4R,5R,6S)-3,4,5-trihydroxy-6- methyloxan-2-yl]oxy}-4H-chromen-4-one	C21 H20 O11	6,229	268720491,1
Bis(2-ethylhexyl) phthalate	C24 H38 O4	17,259	263176229,3
Isophorone	C9 H14 O	8,176	252959571,7
MFC00075988	C30 H50 O3	18,972	234643717,8
3-BHA	C11 H16 O2	8,984	224551177,1
Cumene	C9 H12	13,331	210041984,4
L- $\alpha$ -PALMITIN	C19 H38 O4	14,221	205134110,1
(2R,3R)-5,7-dihydroxy-2-(3,4,5- trihydroxyphenyl)-3,4-dihydro-2H-1- benzopyran-3-yl 3,4,5-trihydroxybenzoate	C22 H18 O11	4,742	196957596,6
(2E)-5-methyl-2-phenylhex-2-enal	C13 H16 O	4,572	173038530,2
3-[18-(1-Hydroxy-3-methoxy-3- oxopropyl)-3,7,12,17-tetramethyl-8,13-	C35 H36 N4 O5	14,907	169368870

divinyl-2-porphyrinyl]propanoic acid			
DA9185000	C12 H10 O S	0,849	160722944,5
C14-Dihydroceramide	C32 H65 N O3	16,267	155168277,4
(4S)-4-hydroxy-3,5,5-trimethyl-4-[(1E)-3- {[(2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6- (hydroxymethyl)oxan-2-yl]oxy}but-1-en- 1-yl]cyclohex-2-en-1-one			
	C19 H30 O8	4,512	148286801,4
b,e-Carotene-3,3'-diol	C40 H56 O2	17,65	144322498,7
Bis(methylbenzylidene)sorbitol	C22 H26 O6	10,437	136655697,2
Oleamide	C18 H35 N O	15,232	132018031,3
trans-3-Indoleacrylic acid	C11 H9 N O2	2,071	128922729,6
b-Turmerone	C15 H22 O	14	125716950,8
D- $\alpha$ -Tocopherol	C29 H50 O2	18,954	121235327,8
3beta-hydroxy-4beta-methyl-5alpha- cholest-7-ene-4alpha-carboxylic acid			
	C29 H48 O3	17,586	115132630,5
2KHZ9ELM84	C13 H18 O3	3,537	112038613,2
2-(2-Hydroxy-4a-methyl-8- methylenedecahydro-2- naphthalenyl)acrylaldehyde			
	C15 H22 O2	11,296	110948103,4
3,4-Dihydroxybenzaldehyde	C7 H6 O3	4,75	110845231,3
15-cis-4,4'-diapophytoene	C30 H48	18,967	106248036,1
Triethanolamine	C6 H15 N O3	0,765	104386803,1
Benzoyl glucuronide	C13 H14 O8	6,641	102169174,6
2-Amino-1,3,4-octadecanetriol	C18 H39 N O3	10,303	99593090,59
6-Methylquinoline	C10 H9 N	2,734	93136722,65
Senkyunolide A	C12 H16 O2	3,541	87363238,22
all-trans-4,4'-diapophytofluene	C30 H46	16,506	87333832,35
Indane	C9 H10	10,743	86101677,79
Bis(4-ethylbenzylidene)sorbitol	C24 H30 O6	12,022	78458557,37
15-cis-4,4'-diapophytoene	C30 H48	18,068	77697106,75
gibberellin A7	C19 H22 O5	5,822	76904453,41
Hexadecanamide	C16 H33 N O	14,214	74452515,6
ZINGEROL	C11 H16 O3	6,574	71304055,49
(2E)-5-methyl-2-phenylhex-2-enal	C13 H16 O	5,125	66422675,71
Lupeol	C30 H50 O	18,629	66332641,37
Mesitol	C9 H12 O	5,235	66240979,24
Desmanthin-1	C28 H24 O16	6,676	64844793,97
(3beta,24R,24'R)-fucosterol epoxide	C29 H48 O2	18,33	64779296,68

MFCD00036904	C24 H50 N O7 P	12,427	62781417,13
1-Stearoylglycerol	C21 H42 O4	15,25	61338807,56
19-Hydroxyurs-12-en-3-yl acetate	C32 H52 O3	17,651	61043310,3
4-Guanidinobutyric acid	C5 H11 N3 O2	0,783	58153680,18
L-Phenylalanine	C9 H11 N O2	1,303	57232246,44
Bis(3,5,5-trimethylhexyl) phthalate	C26 H42 O4	17,87	55875758,29
nylon cyclic dimer	C12 H22 N2 O2	2,694	54049169,08
1-Palmitoyl-2-hydroxy-sn-glycero-3-PE	C21 H44 N O7 P	11,739	52941030,52
Adenine	C5 H5 N5	0,801	52782110,35
XT2570000	C9 H8	12,751	51092169,24
$\alpha$ -Linolenic acid	C18 H30 O2	14,305	51076627,96
Hexadecanamide	C16 H33 N O	10,164	50619187,71
1-Linoleoyl glycerol	C21 H38 O4	14,012	48028984,33
Reduced Vitamin K	C31 H46 O2	17,872	47822402,69
DG(18:2(9Z,12Z)/18:3(9Z,12Z,15Z)/0:0)	C39 H66 O5	16,31	46389095,29
4,5-Epoxy-4,11,11-trimethyl-8-methylenebicyclo(7.2.0)undecane	C15 H24 O	13,066	46194065,37
Methyl Jasmonate	C13 H20 O3	4,568	45370338,57
Safingol	C18 H39 N O2	10,764	44008655,64
Indole	C8 H7 N	13,333	42746642,7
N,N-Bis(2-hydroxyethyl)dodecanamide	C16 H33 N O3	9,944	42480630,78
Kaempferol	C15 H10 O6	6,773	40952397,41
(2R,3R)-2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-3,4-dihydro-2H-1-benzopyran-3-yl 3,4,5-trihydroxybenzoate	C22 H18 O10	5,791	39566418,56
Cianidanol	C15 H14 O6	4,34	39398286,83
DL-Carnitine	C7 H15 N O3	0,781	39310921,55
1,3-dilinolenoylglycerol	C39 H64 O5	15,914	39216592,56
trans-Anethole	C10 H12 O	4,504	37348197,03
Precocene II	C13 H16 O3	12,864	36330502,45
germacra-1(10),4,11(13)-trien-12-al	C15 H22 O	13,696	35505493,11
p-cymene	C10 H14	4,496	35336266,63
CU6450000	C7 H6 O2	5,792	35307883,39
Caprolactam	C6 H11 N O	2,616	35092120,96
Bis(2-ethylhexyl) phthalate	C24 H38 O4	17,722	34835341,09
4-Phenylbutyric acid	C10 H12 O2	18,956	34504712,86
Nonivamide	C17 H27 N O3	12,865	33297991,15

Naringenin	C15 H12 O5	5,664	33110082,34
(3E)-4-(4-Hydroxy-2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	C13 H20 O2	6,096	32855863,89
DG(16:1(9Z)/18:3(9Z,12Z,15Z)/0:0)	C37 H64 O5	14,962	32486441,47
Damascenone	C13 H18 O	6,564	31212397,48
Lactide	C6 H8 O4	0,774	31050771,23
12-oxo Phytodienoic Acid	C18 H28 O3	8,456	29911119,1
1,2-Dilinoleoyl-sn-glycerol	C39 H68 O5	15,712	28939407,31
Nicotinamide	C6 H6 N2 O	0,986	27918463,61
1-oleoyl-2-linoleoyl-sn-glycerol	C39 H70 O5	17,233	27732740,42
NP-000358	C15 H14 O7	2,632	27708174
12-oxo Phytodienoic Acid	C18 H28 O3	12,365	27476392,91
(+)-ar-Turmerone	C15 H20 O	10,742	26435197,31
Hydrolyzed fumonisin B1	C22 H47 N O5	9,909	24620980,81
p-Isopropyl- $\alpha$ -methylstyrene	C12 H16	4,504	24057794,95
3-Hydroxy-N-(2-oxotetrahydro-3-furanyl)butanamide	C8 H13 N O4	1,127	23867279,64
1-oleoyl-2-linoleoyl-sn-glycerol	C39 H70 O5	15,959	23030252,37
Curcumene	C15 H22	12,509	22262074,39
13-apo-beta-carotenone	C18 H26 O	14,484	22145252,41
Tetralin	C10 H12	6,346	22070225,37
11-Aminoundecanoic acid	C11 H23 N O2	0,785	21468765,97
1-Palmitoleoyl-2-oleoyl-sn-glycerol	C37 H68 O5	16,919	21269672,31
Lauramide	C12 H25 N O	11,696	20800412,85
3-Methyl-1-phenyl-2-butene	C11 H14	4,569	20458982,34
Bis(2-ethylhexyl) phthalate	C24 H38 O4	17,873	20331598,3
D-PANTOTHENIC ACID	C9 H17 N O5	1,494	19781664,89
9S,13R-12-Oxophytodienoic acid	C18 H28 O3	11,654	19524286,94
Coumarin	C9 H6 O2	3,705	19121541,67
Syringic acid	C9 H10 O5	2,133	18577431,35
Monoolein	C21 H40 O4	14,609	18132295,47
Pyridoxine	C8 H11 N O3	0,788	17822939,32
19-Hydroxyurs-12-en-3-yl acetate	C32 H52 O3	19,161	17247951,84
Bis(4-ethylbenzylidene)sorbitol	C24 H30 O6	10,955	17084759,21
Deidaclin	C12 H17 N O6	0,766	16542711,92
Phenylglyoxylic acid	C8 H6 O3	4,743	16071038,03
1-[(3-Carboxypropyl)amino]-1-deoxy-	C10 H19 N O7	0,855	16009982,82

beta-D-fructofuranose			
Ionene	C13 H18	7,049	15947066,09
Indole	C8 H7 N	7,765	15861056,59
2,4-Dimethylbenzaldehyde	C9 H10 O	11,384	15416085,66
2-Methyl-4-phenylbutanal	C11 H14 O	4,499	15400453,4
ethyl anisate	C10 H12 O3	5,114	15328205,24
Afzelin	C21 H20 O10	6,775	15294332,22
1-[(3-Carboxypropyl)amino]-1-deoxy-			
beta-D-fructofuranose	C10 H19 N O7	0,753	15162485,86
Heptylbenzene	C13 H20	18,576	15160831,56
L- $\alpha$ -PALMITIN	C19 H38 O4	11,551	14956811,45
D-(+)-Proline	C5 H9 N O2	0,781	14781167,14
Armillaramide	C34 H69 N O4	16,296	14164718,89
( $\pm$ )-Naringenin	C15 H12 O5	5,801	13650582,91
glycidyl oleate	C21 H38 O3	17,58	13403784,03
2-Butylfuran	C8 H12 O	13,5	13398215,15
glycidyl oleate	C21 H38 O3	17,366	13326230,09
Dubamine	C16 H11 N O2	15,611	12722426,25
Quercetin	C15 H10 O7	5,692	12608631,75
Adenosine	C10 H13 N5 O4	1,002	12603003,7
Indole	C8 H7 N	11,306	12580714,24
$\alpha$ -Eleostearic acid	C18 H30 O2	12,451	12568788,15
Mesitol	C9 H12 O	6,347	12467636,24
Phytosphingosine	C18 H39 N O3	10,742	12312467,49
myricetin 3-O-beta-D-galactopyranoside	C21 H20 O13	5,071	12156400,72
2-Phenyl-4-pentenal	C11 H12 O	10,63	11762835,24
Tetralin	C10 H12	6,108	11686521,93
2-Phenyl-4-pentenal	C11 H12 O	12,863	11360986,06
1-Stearoylglycerol	C21 H42 O4	12,411	10009127,09
Naringenin	C15 H12 O5	5,508	9660925,151
Damascenone	C13 H18 O	6,325	9540864,153
Acetophenone	C8 H8 O	0,994	6432717,682
Acetophenone	C8 H8 O	0,788	5983395,664
Sitostenone	C29 H48 O	18,854	5430221,566
gamma-Aminobutyric acid	C4 H9 N O2	0,747	4373242,544
3-Hydroxy-2-methylpyridine	C6 H7 N O	0,785	3689153,332

**Lampiran 6. Hasil Prediksi Aktivitas Biologis Senyawa Daun Kemang Melalui PASS ONLINE**

Name	( $\mu$ ) Nilai Rata-Rata Pa
Isophorone	0,326
Indane	0,1
Myricetin	0,812
2-Amino-1,3,4-octadecanetriol	0,545
Myricitrin	0,795
2-[(5Z)-5-tetradecenyl]cyclobutanone	0,432
b,e-Carotene-3,3'-diol	0,632
Bis(4-ethylbenzylidene)sorbitol	0,614
Quercetin	0,771
Betaine	0,364
(+)-ar-Turmerone	0,456
Sinensal	0,552
Indane	0,388
15-cis-4,4'-diapophytoene	0,702
ZINGEROL	0,452
(3beta,24R,24'R)-fucosterol epoxide	0,315
Choline	0,327
Echinenone	0,701
2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-3- {[(2S,3R,4R,5R,6S)-3,4,5-trihydroxy-6- methyloxan-2-yl]oxy}-4H-chromen-4-one	0,731
Bis(2-ethylhexyl) phthalate	0,537
Isophorone	0,388
MFCD00075988	0,648
3-BHA	0,476
Cumene	0,395
L- $\alpha$ -PALMITIN	0,451
(2R,3R)-5,7-dihydroxy-2-(3,4,5- trihydroxyphenyl)-3,4-dihydro-2H-1- benzopyran-3-yl 3,4,5-trihydroxybenzoate	0,71
(2E)-5-methyl-2-phenylhex-2-enal	0,46
3-[18-(1-Hydroxy-3-methoxy-3-oxopropyl)- 3,7,12,17-tetramethyl-8,13-divinyl-2- porphyrinyl]propanoic acid	0,1
DA9185000	0,377
C14-Dihydroceramide	0,404
(4S)-4-hydroxy-3,5,5-trimethyl-4-[(1E)-3- {[(2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6- (hydroxymethyl)oxan-2-yl]oxy}but-1-en-1- yl]cyclohex-2-en-1-one	0,384
b,e-Carotene-3,3'-diol	0,704

Bis(methylbenzylidene)sorbitol	0,335
Oleamide	0,465
trans-3-Indoleacrylic acid	0,342
b-Turmerone	0,473
D- $\alpha$ -Tocopherol	0,672
3beta-hydroxy-4beta-methyl-5alpha-cholest-7-ene-4alpha-carboxylic acid	0,559
2KHZ9ELM84	0,489
2-(2-Hydroxy-4a-methyl-8-methylenedecahydro-2-naphthalenyl)acrylaldehyde	0,536
3,4-Dihydroxybenzaldehyde	0,495
15-cis-4,4'-diapophytoene	0,674
Triethanolamine	0,358
Benzoyl glucuronide	0,648
2-Amino-1,3,4-octadecanetriol	0,433
6-Methylquinoline	0,344
Senkyunolide A	0,364
all-trans-4,4'-diapophytofluene	0,789
Indane	0,388
Bis(4-ethylbenzylidene)sorbitol	0,614
15-cis-4,4'-diapophytoene	0,734
gibberellin A7	0,538
Hexadecanamide	0,462
ZINGEROL	0,446
(2E)-5-methyl-2-phenylhex-2-enal	0,282
Lupeol	0,63
Mesitol	0,467
Desmanthin-1	0,793
(3beta,24R,24'R)-fucosterol epoxide	0,315
MFCD00036904	0,308
1-Stearoylglycerol	0,409
19-Hydroxyurs-12-en-3-yl acetate	0,383
4-Guanidinobutyric acid	0,399
L-Phenylalanine	0,435
Bis(3,5,5-trimethylhexyl) phthalate	0,28
nylon cyclic dimer	0,337
1-Palmitoyl-2-hydroxy-sn-glycero-3-PE	0,532
Adenine	0,551
XT2570000	0,491
$\alpha$ -Linolenic acid	0,533
Hexadecanamide	0,383
1-Linoleoyl glycerol	0,419
Reduced Vitamin K	0,507
DG(18:2(9Z,12Z)/18:3(9Z,12Z,15Z)/0:0)	0,551

4,5-Epoxy-4,11,11-trimethyl-8-methylenebicyclo(7.2.0)undecane	0,65
Methyl Jasmonate	0,423
Safingol	0,428
Indole	0,361
N,N-Bis(2-hydroxyethyl)dodecanamide	0,338
Kaempferol	0,501
(2R,3R)-2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-3,4-dihydro-2H-1-benzopyran-3-yl 3,4,5-trihydroxybenzoate	0,68
Cianidanol	0,666
DL-Carnitine	0,296
1,3-dilinolenoylglycerol	0,484
trans-Anethole	0,535
Precocene II	0,533
germacra-1(10),4,11(13)-trien-12-al	0,537
p-cymene	0,414
CU6450000	0,413
Caprolactam	0,412
Bis(2-ethylhexyl) phthalate	0,474
4-Phenylbutyric acid	0,1
Nonivamide	0,316
Naringenin	0,728
(3E)-4-(4-Hydroxy-2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	0,728
DG(16:1(9Z)/18:3(9Z,12Z,15Z)/0:0)	0,586
Damascenone	0,455
Lactide	0,978
12-oxo Phytodienoic Acid	0,475
1,2-Dilinoleoyl-sn-glycerol	0,677
Nicotinamide	0,1
1-oleoyl-2-linoleoyl-sn-glycerol	0,582
NP-000358	0,736
12-oxo Phytodienoic Acid	0,197
(+)-ar-Turmerone	0,587
Hydrolyzed fumonisin B1	0,493
p-Isopropyl- $\alpha$ -methylstyrene	0,377
3-Hydroxy-N-(2-oxotetrahydro-3-furanyl)butanamide	0,382
1-oleoyl-2-linoleoyl-sn-glycerol	0,545
Curcumene	0,546
13-apo-beta-carotenone	0,754
Tetralin	0,1
11-Aminoundecanoic acid	0,589

1-Palmitoleoyl-2-oleoyl-sn-glycerol	0,622
Lauramide	0,485
3-Methyl-1-phenyl-2-butene	0,611
Bis(2-ethylhexyl) phthalate	0,401
D-PANTOTHENIC ACID	0,1
9S,13R-12-Oxophytodienoic acid	0
Coumarin	0
Syringic acid	0,1
Monoolein	0,574
Pyridoxine	0,1
19-Hydroxyurs-12-en-3-yl acetate	0,653
Bis(4-ethylbenzylidene)sorbitol	0,599
Deidaclin	0,527
Phenylglyoxylic acid	0,619
1-[(3-Carboxypropyl)amino]-1-deoxy-beta-D-fructofuranose	0,437
Ionene	0,1
Indole	0,361
2,4-Dimethylbenzaldehyde	0,343
2-Methyl-4-phenylbutanal	
ethyl anisate	0,501
Afzelin	0,731
1-[(3-Carboxypropyl)amino]-1-deoxy-beta-D-fructofuranose	0,412
Heptylbenzene	0,293
L- $\alpha$ -PALMITIN	0,451
D-(+)-Proline	0,364
Armillaramide	0,671
( $\pm$ )-Naringenin	0,743
glycidyl oleate	0,29
2-Butylfuran	0,282
glycidyl oleate	0,471
Dubamine	0,376
Quercetin	0,771
Adenosine	0,694
Indole	0,361
$\alpha$ -Eleostearic acid	0,547
Mesitol	0,486
Phytosphingosine	0,67
myricetin 3-O-beta-D-galactopyranoside	0,825
2-Phenyl-4-pentenal	0,285
Tetralin	0,409
2-Phenyl-4-pentenal	0,571
1-Stearoylglycerol	0,451

Naringenin	0,642
Damascenone	0,537
Acetophenone	0,39
Acetophenone	0,39
Sitostenone	0,336
gamma-Aminobutyric acid	0,479
3-Hydroxy-2-methylpyridine	0,338

**Lampiran 7. Hasil Prediksi Protein Target Senyawa Daun Kemang dengan  
*Swiss Target Prediction***

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**Protein Target Senyawa Daun Kemang**

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AKR1B1 CA2 CA7 CA12 CA4 NOX4 ADRA2C ACHE NQO2 RPS6KA3 NMUR2 ADRA2A  
PTGS2 CD38 TNF IL2 XDH ADORA1 PDE5A ALOX5 SLC29A1 TERT AKR1B1 CA2 CA7  
CA12 CA4 NOX4 ADRA2C ACHE NQO2 RPS6KA3 NMUR2 ADRA2A PTGS2 CD38 TNF  
IL2 XDH ADORA1 PDE5A ALOX5 SLC29A1 TERT NOX4 AVPR2 AKR1B1 XDH MAOA  
IGF1R FLT3 CYP19A1 EGFR F2 CA2 PIM1 ALOX5 AURKB DRD4 ADORA1 CA7 GLO1  
MPO PIK3R1 ADORA2A DAPK1 PYGL CA1 GSK3B SRC PTK2 HSD17B2 KDR MMP13  
MMP3 CA3 ALOX15 ABCC1 PLK1 CA6 CDK1 MMP9 CA12 MMP2 PKN1 CA14 CA9  
CSNK2A1 ALOX12 MET CA4 NEK2 CXCR1 CAMK2B ALK AKT1 ABCB1 NEK6  
PLA2G1B CA5A BACE1 CYP1B1 AXL ABCG2 NUA1 AKR1C2 AKR1C1 AKR1C3  
AKR1C4 CA13 AKR1A1 GPR35 MAPT KDM4E TOP2A INSR ACHE MYLK SYK PIK3CG  
APEX1 PTPRS ESR2 MPG SLC22A12 CDK5R1 CDK5 CCNB3 CDK1 CCNB1 CCNB2 ARG1  
CDK6 CDK2 TYR HSD17B1 AHR ESRRR APP PARP1 TTR MMP12 CD38 AKR1B10  
TNKS2 TNKS TOP1 TERT ADORA1 ADORA2A RBP4 SPHK2 CYP19A1 AR PGR NR3C1  
NR3C2 SHBG SRD5A1 SRD5A2 SERPINA6 SIGMAR1 NR1I2 CYP17A1 HSD17B3 FABP1  
NR1I3 RORC HTR2B RXRB ADRA2B RARG RXRG RARB RARA RXRA ADORA3  
MAPK14 RORB MAPK1 RORA CES1 MPI CES2 HAO1 ALOX12 AKR1B1 CA2 CA7 CA12  
CA4 NQO2 NOX4 ADRA2C ACHE RPS6KA3 NMUR2 ADRA2A CD38 PTGS2 XDH TNF  
IL2 ADORA1 PDE5A ALOX5 SLC29A1 MAPT DNMT1 DYRK1A APP MAPK14 TERT  
MMP2 PGD MET MMP14 ABCB1 BACE1 BCL2 STAT1 SQLE KCNH2 ST3GAL3 FUT7  
FUT4 GABRA1 GABRB2 GABRG2 CA3 MMP12 CA2 CA1 CA12 HIF1A CA7 CA6 CA9  
CA5B CA5A PTGS1 MMP9 ABCG2 CA4 KLK1 KLK2 MMP13 ABCC1 DNM1 TAS2R31PGF  
VEGFA CA13 VDR AR PTPN1 NR1H3 PRKCA CDC25A GLRA1 SLC6A2 GC RASGRP3  
ADORA1 ADORA2A ADORA3 RBP4 RPS6KA3 NMUR2 ADRA2A AKR1B1 NOX4  
ADRA2C CA2 CA7 CA12 CA4 ACHE PTGS2 NQO2 CD38 PDE5A TNF IL2 ADORA1 XDH  
ALOX5 CYP19A1 CA7 ABCC1 HSD17B1 CA12 SHBG CA4 CYP1B1 CBR1 ESR1 ESR2  
PTGS1 MAOB ADORA1 ADORA3 ABCG2 TAS2R31 AKR1C3 PLA2G1BGRM5 CES1  
PPARG CES2 SLC5A2 MMP12 POLB MMP13 PLA2G2A PLA2G5 PLA2G10 BACE1  
CHRNA7 KLK1 KLK2 RXRA SERPINE1 SRC CA2 CA1 HSD17B14 KIT KDR FGFR1 MET  
CA3 CA6 CA13 CA5B CA5A NQO2 CTSB NOX4 AKR1B1 CLK1 DYRK1B BCHE CA9  
ESRRR ESRRB CDK5R1 CDK5 IGF1R INSR DYRK1A HSD17B2 IGF1R3 MMP2 YWHAG  
SIRT2 F3 PTGER1 PTGER2 PTGER3 BCL2L1 PIK3CB CYP2C9 CYP3A4 PIK3CA VCP PGF  
VEGFA EDNRA ERN1 MMP3 APP GSK3B BCL2 MMP9 WEE1 LCK SYK CCNE1 CDK2  
CCNE1 CDK3 CDK4 AURKA SNCA ALOX12 HNF4A CYP19A1 AR NR3C1 PGR NR3C2  
SHBG PRKCA NR1H3 RASGRP3 JAK1 JAK2 JAK3 TYK2 HAO1 TAAR1 OPRM1  
SIGMAR1 CHRNA3 CHRNB4 PRKCG PRKCD PRKCB PRKCE PRKCQ CYP11B1  
CYP11B2 CCR5 CDC7 CHRM4 CHRM5 CA2

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CHRM1 CHRM3 CA1 CA6 CYP2C9 CA4 NPY5R PRMT3 BRD4 BRD2 PDE10A CHEK1  
HMOX1 PARP1 PRKCD PRKCQ PRKCA FAAH CNR1 HSD11B1 PRKCG PRKCH CNR2  
PRKCE PTGS2 NOS2 PTGES METAP2 CYP19A1 HMGCR PTPN2 LPAR3 SELP LPAR6  
LPAR2 LPAR1 TRPV1 LPAR5 LPAR4 CES2 CA1 CA4 BACE1 CA2 CA9 CA7 CA12 MMP9  
CA6 CA5B ABCB1 CA5A MMP2 MMP13 MMP12 PTGS1 BCL2 CA3 PGF VEGFA KIT SRC  
KDR FGFR1 MET MMP14 APP TERT PGD ST3GAL3 FUT7 FUT4 STAT1 SQLE CA7 GLO1  
MPO PIK3R1 ADORA2A DAPK1 PYGL CA1 GSK3B SRC PTK2 HSD17B2 KDR MMP13  
MMP3 CA3 ALOX15 ABCC1 PLK1 CA6 CDK1 MMP9 CA12 MMP2 PKN1 CA14 CA9  
CSNK2A1 ALOX12 MET CA4 NEK2 CXCR1 CAMK2B ALK AKT1 ABCB1 NEK6  
PLA2G1B CA5A BACE1 CYP1B1 AXL ABCG2 NUA1 AKR1C2 AKR1C1 AKR1C3  
AKR1C4 CA13 AKR1A1 GPR35 MAPT KDM4E TOP2A INSR ACHE MYLK SYK PIK3CG  
APEX1 PTPRS ESR2 MPG SLC22A12 CDK5R1 CDK5 CCNB3 CDK1 CCNB1 CCNB2 ARG1  
CDK6 CDK2 TYR HSD17B1 AHR ESRR1 APP PARP1 TTR MMP12 CD38 AKR1B10  
TNKS2 TNKS TOP1 TERT ADORA1 ADORA2A RBP4 SPHK2 CYP19A1 AR PGR NR3C1  
NR3C2 SHBG SRD5A1 SRD5A2 SERPINA6 SIGMAR1 NR1I2 CYP17A1 HSD17B3 FABP1  
NR1I3 RORC HTR2B RXRB ADRA2B RARG RXRG RARB RARA RXRA ADORA3  
MAPK14 RORB MAPK1 RORA CES1 MPI CES2 HAO1 ALOX12 AKR1B1 CA2 CA7 CA12  
CA4 NQO2 NOX4 ADRA2C ACHE RPS6KA3 NMUR2 ADRA2A CD38 PTGS2 XDH TNF  
IL2 ADORA1 PDE5A ALOX5 SLC29A1 MAPT DNMT1 DYRK1A APP MAPK14 TERT  
MMP2 PGD MET MMP14 ABCB1 BACE1 BCL2 STAT1 SQLE KCNH2 ST3GAL3 FUT7  
FUT4 GABRA1 GABRB2 GABRG2 CA3 MMP12 CA2 CA1 CA12 HIF1A CA7 CA6 CA9  
CA5B CA5A PTGS1 MMP9 ABCG2 CA4 KLK1 KLK2 MMP13 ABCC1 DNM1 TAS2R31PGF  
VEGFA CA13 VDR AR PTPN1 NR1H3 PRKCA CDC25A GLRA1 SLC6A2 GC RASGRP3  
ADORA1 ADORA2A ADORA3 RBP4 RPS6KA3 NMUR2 ADRA2A AKR1B1 NOX4  
ADRA2C CA2 CA7 CA12 CA4 ACHE PTGS2 NQO2 CD38 PDE5A TNF IL2 ADORA1 XDH  
ALOX5 CYP19A1 CA7 ABCC1 HSD17B1 CA12 SHBG CA4 CYP1B1 CBR1 ESR1 ADORA1  
XDH TNF IL2 SLC29A1 ALOX5 CYP19A1 CA7 ABCC1 HSD17B1 CA12 SHBG  
CA4CYP1B1 CBR1 ESR1 ESR2 PTGS1 MAOB ADORA1 ADORA3 ABCG2 TAS2R31  
AKR1C3 PLA2G1B GRM5 CES1 PPARG CES2 SLC5A2 MMP12 POLB MMP13 PLA2G2A  
PLA2G5 PLA2G10 BACE1 CHRNA7 KLK1 SYK CCNE1 CDK2 CCNE1 CDK3 CDK4  
AURKA SNCA ALOX12 HNF4A NOX4 ADRA2C AKR1B1 CA2 CA7 CA12 CA4 ACHE  
NQO2 RPS6KA3 NMUR2 ADRA2A PTGS2 CD38 PDE5A XDH TNF IL2 ADORA1 ALOX5  
SLC29A1 TERT KLK2 RXRA SERPINE1 SRC CA2 CA1 HSD17B14 KIT KDR FGFR1 MET  
CA3 CA6 CA13 CA5B CA5A NQO2 CTSB NOX4 AKR1B1 CLK1 DYRK1B BCHE CA9  
ESRR1 ESRRB CDK5R1 CDK5IGF1R INSR DYRK1A HSD17B2 IGFBP3 MMP2 YWHAG  
SIRT2 F3 PTGER1 PTGER2 PTGER3 BCL2L1 PIK3CB CYP2C9 CYP3A4 PIK3C VCP PGF  
VEGFA EDNRA ERN1 MMP3 APP GSK3B BCL2 MMP9 WEE1 LCK SYK CCNE1 CDK2  
CCNE1 CDK3 CDK4 AURKA SNCA ALOX12 HNF4A NOX4 ADRA2C AKR1B1 CA2 CA7  
CA12 CA4 ACHE NQO2 RPS6KA3

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NMUR2 ADRA2A PTGS2 CD38 PDE5A XDH TNF IL2 ADORA1 ALOX5 ESR2 PTGS1  
MAOB ADORA1 ADORA3 ABCG2 TAS2R31 AKR1C3 PLA2G1BGRM5 CES1 PPARG  
CES2 SLC5A2 MMP12 POLB MMP13 PLA2G2A PLA2G5 PLA2G10 BACE1 CHRNA7  
KLK1 KLK2 RXRA SERPINE1 SRC CA2 CA1 HSD17B14 KIT KDR FGFR1 MET CA3 CA6  
CA13 CA5B CA5A NQO2 CTSB NOX4 AKR1B1 CLK1 DYRK1B BCHE CA9 ESRRA  
ESRRB CDK5R1 CDK5 IGF1R INSR DYRK1A HSD17B2 IGFBP3 MMP2 YWHAG SIRT2  
F3 PTGER1 PTGER2 PTGER3 BCL2L1 PIK3CB CYP2C9 CYP3A4 PIK3CA VCP PGF  
VEGFA EDNRA ERN1 MMP3 APP GSK3B BCL2 MMP9 WEE1 LCK SYK CCNE1 CDK2  
CCNE1 CDK3 CDK4 AURKA SNCA ALOX12 HNF4A CYP19A1 AR NR3C1 PGR NR3C2  
SHBG PRKCA NR1H3 RASGRP3 JAK1 JAK2 JAK3 TYK2 HAO1 TAAR1 OPRM1  
SIGMAR1 CHRNA3 CHRNB4 PRKCG PRKCD PRKCB PRKCE PRKCQ CYP11B1  
CYP11B2 CCR5 CDC7 CHRM4 CHRM5 CA2 CHRM1 CHRM3 CA1 CA6 CYP2C9 CA4  
NPY5R PRMT3 BRD4 BRD2 PDE10A CHEK1 HMOX1 PARP1 PRKCD PRKCQ PRKCA  
FAAH CNR1 HSD11B1 PRKCG PRKCH CNR2 PRKCE PTGS2 NOS2 PTGES METAP2  
CYP19A1 HMGCR PTPN2 LPAR3 SELP LPAR6 LPAR2 LPAR1 TRPV1 LPAR5 LPAR4  
CES2 CA1 CA4 BACE1 CA2 CA9 CA7 CA12 MMP9 CA6 CA5B ABCB1 CA5A MMP2  
MMP13 MMP12 PTGS1 BCL2 CA3 PGF VEGFA KIT SRC KDR FGFR1 MET MMP14 APP  
TERT PGD ST3GAL3 FUT7 FUT4 STAT1 SQLE GABRA1 GABRB2 GABRG2 DYRK1A  
CA13 ESR1 ESR2 MMP1 MMP7 MMP8 HIF1A KLK1 KLK2 MAPT ADAM17 CYP19A1  
KCNH2 TAS2R31 ABCC1 SHBG CBR1 ADAM10 NQO2 AKR1B1 CA2 CA7 CA12 CA4  
RPS6KA3 ACHE NOX4 ADRA2C NMUR2 ADRA2A CD38 PTGS2 PDE5A GABRA1  
GABRB2 GABRG2 DYRK1A CA13 ESR1 ESR2 MMP1 MMP7 MMP8 HIF1A KLK1 KLK2  
MAPT ADAM17 CYP19A1 KCNH2 TAS2R31 ABCC1 SHBG CBR1 ADAM10 NQO2  
AKR1B1 CA2 CA7 CA12 CA4 RPS6KA3 ACHE NOX4 ADRA2C NMUR2 ADRA2A CD38  
PTGS2 PDE5A ADORA1 XDH TNF IL2 SLC29A1 ALOX5 CYP19A1 CA7 ABCC1 HSD17B1  
CA12 SHBG CA4CYP1B1 CBR1 ESR1 ESR2 PTGS1 MAOB ADORA1 ADORA3 ABCG2  
TAS2R31 AKR1C3 PLA2G1B GRM5 CES1 PPARG CES2 SLC5A2 MMP12 POLB MMP13  
PLA2G2A PLA2G5 PLA2G10 IGF1R INSR DYRK1A HSD17B2 IGFBP3 MMP2 YWHAG  
SIRT2 F3 PTGER1 PTGER2 PTGER3 BCL2L1 PIK3CB CYP2C9 CYP3A4 PIK3C VCP PGF  
VEGFA EDNRA ERN1 MMP3 APP GSK3B BCL2 MMP9 WEE1 LCK BACE1 CHRNA7  
KLK1 SYK CCNE1 CDK2 CCNE1 CDK3 CDK4 AURKA SNCA ALOX12 HNF4A NOX4  
ADRA2C AKR1B1 CA2 CA7 CA12 CA4 ACHE NQO2 RPS6KA3 NMUR2 ADRA2A PTGS2  
CD38 PDE5A XDH TNF IL2 ADORA1 ALOX5 SLC29A1 TERT.

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## Lampiran 8. Hasil Prediksi Protein Target Penyakit Paru dengan GENECARDS

### Protein Target Senyawa Daun Kembang

BRCA2, BRCA1, ATM, EGFR, TP53, PALB2, CHEK2, MLH1, MSH6, BRIP1, APC, MSH2, CDH1, BAR1, PTEN, TERT, NF1, PMS2, KRAS, CDKN2A, C11orf65, BRAF, ALK, DICER1, RB1, MET, POLD1, STK11, POLE, ERBB2, TSC2, PIK3CA, RET, AXIN2, SMADA, SMARCA4, BAP1, RAD50, KIT, AKT1, NBN, PTCH1, MUTYH, PDGFRA, CTNNA1, TSC1, BLM, LOC12686257, FLCN, RAD51D, MSH3, RAD51C, PLA2G5, PLA2G10, MMP12, AKR1B10, ALOX5, KLK2, CBR1, ADAM17, MAPK8, CLK1, DYRK1B, AKR1B1, MMP3, NR1H4, MMP1, MMP8, DUT, PARP1, HSD17B2, HSP90AA1, BRAF, OPRM1, OPRD1, RPS6KB1, AURKA, MDM4, CSF1R, SGK1, MDM2, PDK1, EDNRA, MMP7, CCNE1 CDK2, CCNE1 CDK3, TNF, CFD, CTSD, PDE6C, MMP25, CDK1 CCNB1, MMP16, BMP1, GRK2, ADAM10, CCND1 CDK4, RET, CCNE2 CDK2 CCNE1, AGTR1, LCK, PLK1, SIRT3, SIRT1, CSNK1G1, RPS6KA1, ROCK1, MAPK1, TNNA3, CAMK2D, DPP4, DPP7, DPP8, TAAR1, CYP19A1, SRD5A1, SLC5A1, SLC5A2, CA12, CA2, CA1, TYR, PTGS1, SLC5A4, EPHX2, MMP13, MMP12, CYP11B1, CA3, CA6, CA13, CA5B, ABCB1, nCA5A, HRAS, CA7, CA4, MMP7, MMP8, CA14, TAS2R31, CHIA, SLC28A3, SLC29A1, TERT, ADORA1, AKR1B1, NOX4, APP, CA2, CA4, XDH, BACE1, F2, CA6, CYP11B1, ADORA3, MCL1, ABCG2, ABCB1, AKT1, PLG, CA9, OPRD1, CA12, CA7, PIK3CG, ALOX15, KIT, ALOX12, ADORA2A, GSK3B, HSD17B2, ALK, CA1, NOS2, CDK1, EGFR, ADORA1, CYP19A1, MMP9, MMP2, OPRM1, PIMI1, ABCC1, ALOX5, MAOA, IGF1R, FLT3, PKN1, CAMK2B, AXL, AVPR2, CXCR1, MET, BCHE, ST6GAL1, MAPT, KDM4E, GPR35, TOP2A, INSR, ACHE, GLO1, MYLK, SYK, APEX1, AURKB, DRD4, MPO, PIK3R1, DAPK1, PYGL, SRC, PTK2, KDR, MMP13, MMP3, CA3, PLK1, CA14, CSNK2A1, NEK2, NEK6, PLA2G1B, CA5A, NUA1, AKR1C2, AKR1C1, AKR1C3, AKR1C4, CA13, AKR1A1, HSD17B1, CDK2, PFKFB3, CDK5R1 CDK5, CCNB3 CDK1 CCNB1 CCNB2, CDK6, ESR2, PLA2G2A, ODC1, TERT, PTGS2, AMY1A, ARG1, SLC5A2, TYR, SLC5A1, GBA, SLC5A4, ADK, HSPA8, GAA, CA14, CDK2 CCNA1 CCNA2, ADORA2A, ADORA3, GAPDH, GSK3B, MMP3, MMP9, ADAM17, AHCY, HSPA5, EGFR, MMP1, FUCA1, MANBA, SLC29A1, ADA, OGA, MAPK1, GRK1, CDK9 CCNT1, HK2, HK1, CSNK2A1, CA1, CA12, CA9, DAO, HDAC1, TK1, PNP, CDK1 CCNB1, TYMP, F2, AKR1B1, CA2, AHCYL1, GSTP1, GSTM2, CA6, CA4, MCL1, CA5A, PYGL, DPP4, CDA, AKR1C1, MMP13, CA4, NQO2, EGFR, PTGS2, ALDH2, CD38, CA1, CA9, SQLE, ALOX5, CA1, CA12, CA9, CA13, CA2, CA7, ADORA2A, ADORA2B, ADORA3, SLC29A1, ALDH2, ADORA1, MMP13, MMP1, MMP7, MMP12, MMP8, TOP1, AKR1B1, TNF, IL2, XDH, AKR1B1, ADORA1, NMUR2, ADORA2A, ADORA2C, ACHE, NOX4, CA2, RPS6KA3, CA7, CA12, CA4, NQO2, EGFR, PTGS2, ALDH2, CD38, CA1, CA9, SQLE, ALOX5, ALDH2, IL2, TNF, XDH, ADORA1, CA1, CA9, AKR1B1, TP53, CA12, CA13, CA2, CA7, VCP, TNNA1 TNNT2 TNNA3, SLC5A1, EPHX2, TYR, SLC5A2, CYP19A1, ADORA2A, SLC5A4, HSP90AA1, MMP1, MMP7, MMP8, SLC29A1, ADORA2B, CA9, IMPDH1, IMPDH2, SLC28A2, CA14, TNF, IL2, TOP1, EGFR, ADORA1, ADORA2A, ADORA3, TOP1, SLC5A2,

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F2, F7, ACE, SLC29A1, SELP, AKR1B1, SELL, PTGS2, ALOX5, PNP, AKR1B1, XDH, TNF, IL2, ADORA1, NOX4, ADRA2C, NMUR2, ADRA2A, ACHE, RPS6KA3, NQO2, CA2, CA12, CA7, CA4, ALOX5, CD38, PTGS2, ABCG2, PRKCA, HSP90AA1, TERT, CYP19A1, CA7, ABCC1, HSD17B1, CA12, SHBG, CA4, CYP1B1, CBR1, ESR1, ESR2, PTGS1, MAOB, ADORA1, ADORA3, ABCG2, TAS2R31, AKR1C3, PLA2G1B, GRM5, CES1, PPARG, CES2, SLC5A2, MMP12, POLB, MMP13, PLA2G2A, PLA2G5, PLA2G10, BACE1, CHRNA7, KLK1, KLK2, RXRA, SERPINE1, SRC, CA2, CA1, HSD17B14, KIT, KDR, FGFR1, MET, CA3, CA6, CA13, CA5B, CA5A, NQO2, CTSB, NOX4, AKR1B1, CLK1, DYRK1B, BCHE, CA9, ESRRRA, ESRRB, CDK5R1 CDK5, IGF1R, INSR, DYRK1A, HSD17B2, IGFBP3, MMP2, YWHAG, SIRT2, F3, PTGER1, PTGER2, PTGER3, BCL2L1, PIK3CB, CYP2C9, CYP3A4, PIK3CA, VCP, PGF, VEGFA, EDNRA, ERN1, MMP3, APP, GSK3B, BCL2, MMP9, WEE1, LCK, SYK, CCNE1 CDK2, CCNE1, CDK3, CDK4, AURKA, SNCA, ALOX12, HNF4A, CA7, CA12, AKR1B1, SLC29A1, NMUR2, ADRA2A, ADRA2C, ACHE, NOX4, AKR1B1, CA7, CA12, CA4, CA2, XDH, CD38, NQO2, RPS6KA3, PTGS2, TNF, IL2, ADORA1, ALOX5, PDE5A, VCP, TNNC1 TNNT2 TNNI3, SQLE, TP53, TERT, CA7, CA12, CA4, CYP1B1, CYP19A1, PTGS1, ABCC1, HSD17B1, SHBG, CBR1, ESR2, ESR1, MAOB, TAS2R31, ADORA1, ADORA3, ABCG2, MMP13, AKR1C3, MMP12, PLA2G1B, KLK1, KLK2, APP, IL2, AKR1B1, XDH, ADORA1, NMUR2, ADRA2A, ADRA2C, ACHE, CA7, CA12, CA4, EGFR, ALDH2, CA1, CA9, CA2, TP53, SQLE, TNNC1 TNNT2 TNNI3, CD38, NQO2, NOX4, RPS6KA3, CYP19A1, SLC5A1, SLC5A4, SLC5A2, PTGS1, EIF4A1, EPHX2, SRD5A1, SLC28A3, TYR, MMP1, MMP7, MMP8, ADORA1, ADORA3, MMP13, MMP12, TAS2R31, MAOB, CYP1B1, ABCG2, ADORA2A, CA12, ABCC1, HSD17B1, SHBG, CBR1, PARP1, PTPN2, XDH, CA2, CA7, CA12, CA4, CYP1B1, ABCC1, NOX4, AKR1B1, ABCG2, ACHE, ALOX15, ALOX12, IGF1R, EGFR, AVPR2, MAOA, FLT3, CYP19A1, F2, PIM1, ALOX5, AURKB, DRD4, ADORA1, GLO1, MPO, PIK3R1, ADORA2A, DAPK1, PYGL, CA1, GSK3B, SRC, PTK2, HSD17B2, KDR, MMP13, MMP3, CA3, PLK1, CA6, CDK1, MMP9, MMP2, PKN1, CA14, CA9, CSNK2A1, MET, NEK2, CXCR1, CAMK2B, ALK, AKT1, ABCB1, NEK6, PLA2G1B, CA5A, BACE1, AXL, NUAK1, AKR1C2, AKR1C1, AKR1C3, AKR1C4, CA13, AKR1A1, GPR35, MAPT, KDM4E, TOP2A, INSR, MYLK, SYK, PIK3CG, APEX1, CDK5R1 CDK5, CCNB3 CDK1 CCNB1 CCNB2, CDK6, CDK2, ARG1, APP, MCL1, TERT, TYR, HSD17B1, AHR, ESRRRA, PTPRS, PLG, ESR2, MPG, SLC22A12, PARP1, TTR, MMP12, CD38, AKR1B10, TNKS2, CYP1B1, TAS2R31, CA7, CA12, CA4, ABCG2, MAOB, CYP19A1, MMP13, ADORA1, CBR1, HSD17B1, ADORA3, PTGS1, MMP12, ABCC1, ESR1, ESR2, CA6, CA13, CA5B, CA5A, CA2, CA1, SHBG, KLK1, KLK2, BACE1, PLA2G1B, ABCB1, MMP2, PPARG, AKR1C3, ACHE, APP, CA3, GRM5, KDR, CES2, POLB, EDNRA, MMP14, ALPL, ERN1, PLA2G5, PLA2G10, CA9, HDAC3, CES1, HIF1A, CHEK1, WEE1, MMP9, TLR9, MKNK1, FGFR1, MTOR, PIK3CA, PDGFRA PDGFRB, ADAMTS5, ADAMTS4, TERT, BMP1, RXRA, MET, CCND1 CDK4, CCNE2 CDK2 CCNE1, MMP8, HDAC2, HDAC5, HDAC11, HDAC4, SLC5A2, NOX4, SYK, CDC25C, CDC25A, CDC25B, JAK3, PIM1, MMP3, PLK1, PIM2, DNMT1, PGD, ST3GAL3, FUT7, FUT4, STAT1,

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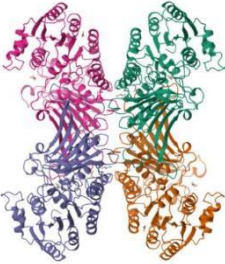
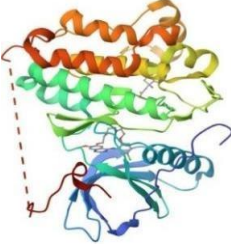
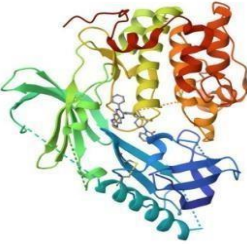

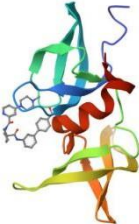
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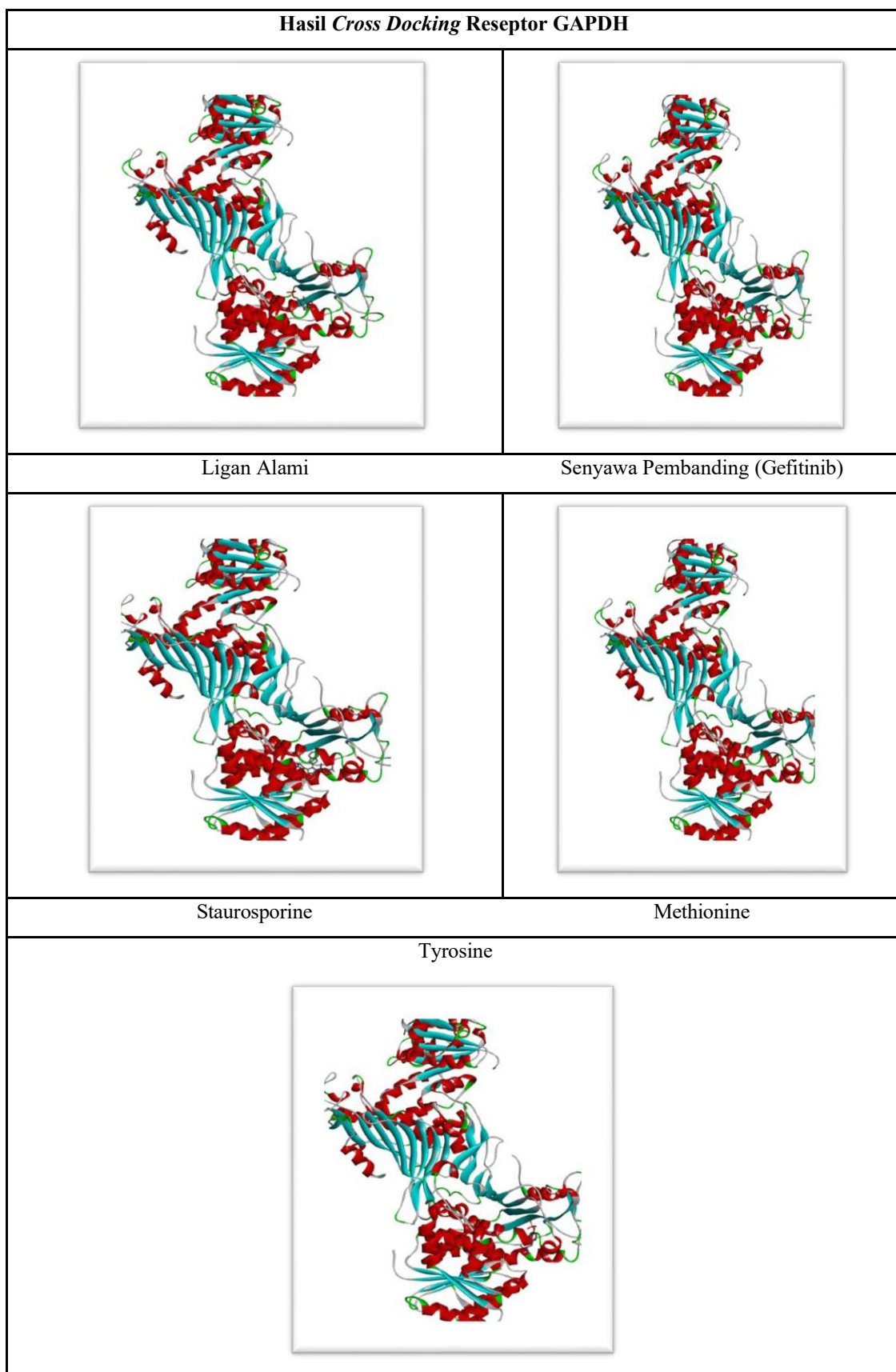
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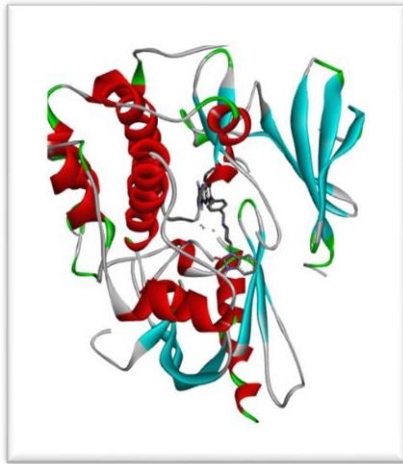
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**Lampiran 9. Struktur 3D Reseptor**

Nama Reseptor	PDB ID	Struktur 3D
GAPDH	2BHL	
EGFR	7U99	
AKT1	3O96	
SRC	10GS	
TP53	85WJ	

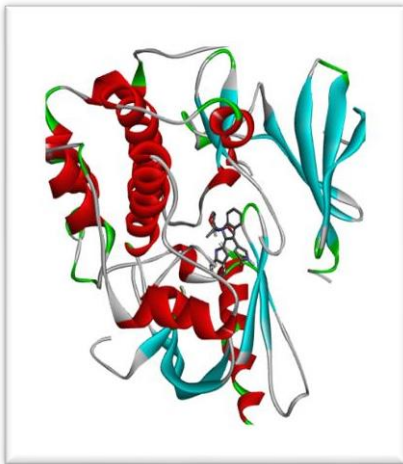
**Lampiran 10. Hasil Visualisasi *Cross Docking* Senyawa Uji dengan Tiap Reseptor**

Hasil *Cross Docking* Reseptor AKT1

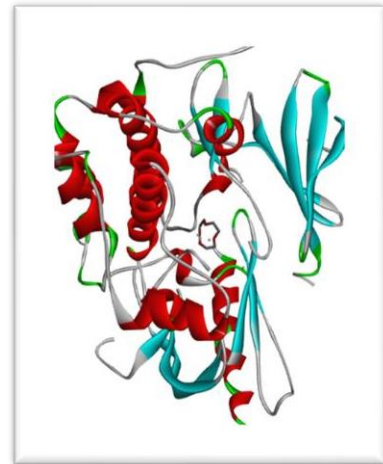
Ligan Alami



Senyawa Pembanding (Gefitinib)

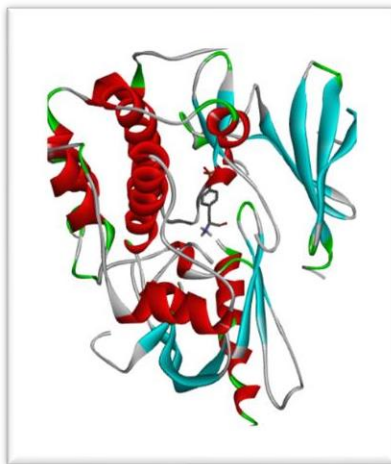


Staurosporine



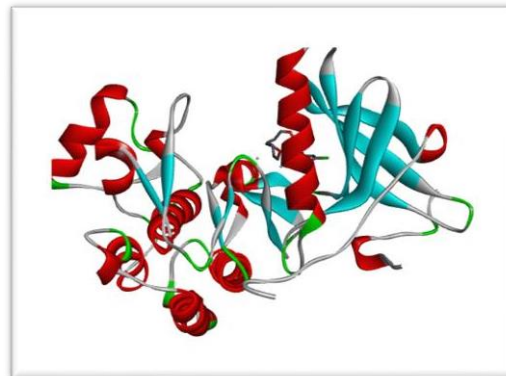
Methionine

Tyrosine



Hasil *Cross Docking* Reseptor EGFR

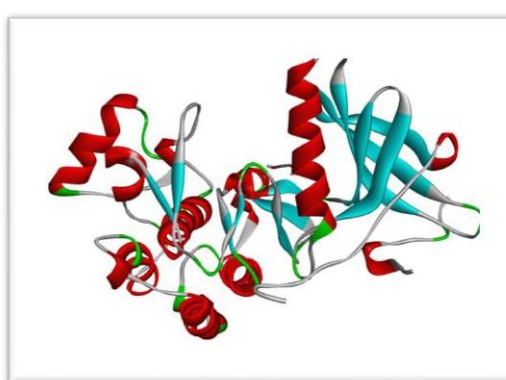
Ligan Alami



Senyawa Pembanding (Gefitinib)

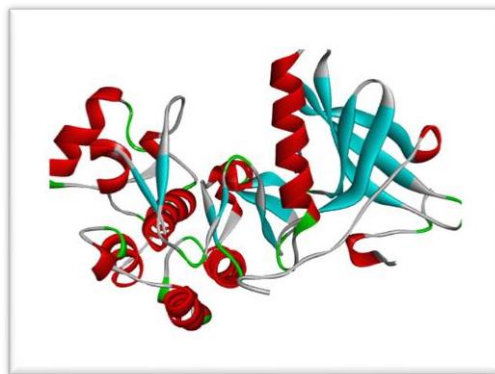


Staurosporine



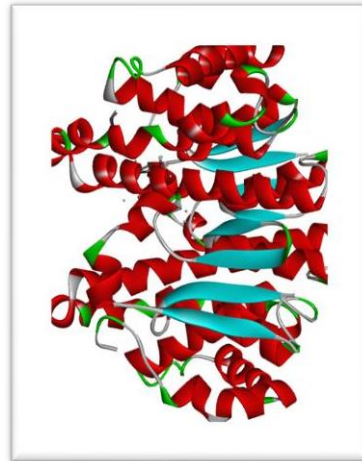
Methionine

Tyrosine



Hasil *Cross Docking* Reseptor SCR

Ligan Alami



Senyawa Pembanding (Gefitinib)



Staurosporine



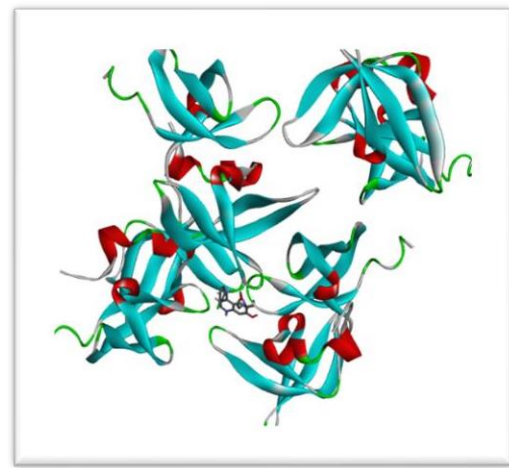
Methionine

Tyrosine

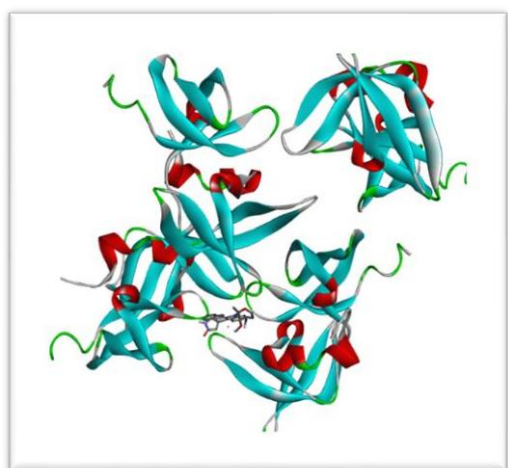


Hasil *Cross Docking* Reseptor TP53

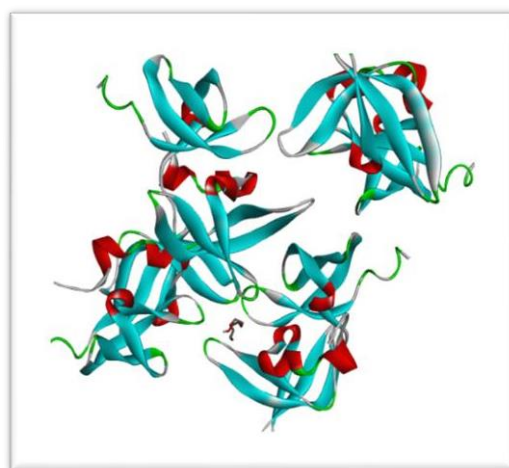
Ligan Alami



Senyawa Pembanding (Gefitinib)

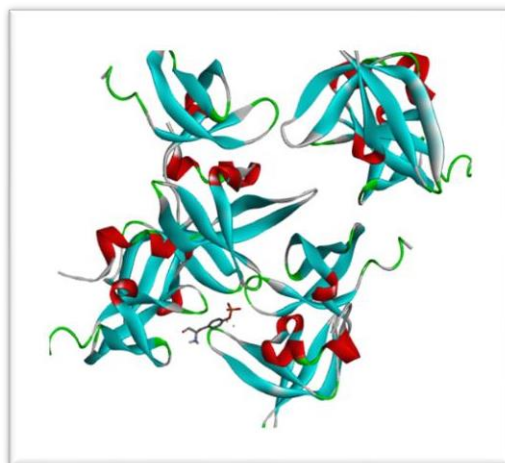


Staurosporine



Methionine

Tyrosine



### Lampiran 11. Nilai Binding Affinity Cross Docking Menggunakan Autodock Vina

Hasil <i>Binding Affinity</i> Reseptor GAPDH																																																																																							
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1	-9.724	0	0	1	-7.237	0	0
2	-9.701	0.3191	0.3191	2	-6.772	1.576	1.896
3	-8.185	3.389	6.783	3	-6.727	1.282	1.678
4	-7.226	3.639	5.876	4	-6.547	3.914	5.235
5	-7.18	2.91	4.706	5	-6.487	4.239	6.789
6	-6.996	2.773	5.841	6	-6.402	4.109	6.698
7	-6.919	3.471	6.984	7	-6.385	4.639	6.722
8	-6.622	3.091	6.387	8	-6.211	3.718	4.632
9	-6.546	4.266	6.981	9	-6.136	3.385	5.321
Ligan Alami				Senyawa Pembanding (Gefitinib)			
mode	affinity (kcal/mol)	dist from best mode rmsd l.b.   rmsd u.b.		mode	affinity (kcal/mol)	dist from best mode rmsd l.b.   rmsd u.b.	
1	-9.258	0	0	1	-3.166	0	0
2	-8.115	1.664	5.562	2	-3.115	1.49	4.378
3	-8.108	2.161	6.142	3	-2.982	1.755	2.015
4	-7.917	1.937	5.501	4	-2.868	2.955	5.4
5	-7.811	2.117	3.711	5	-2.864	1.881	3.464
6	-7.269	1.947	5.585	6	-2.844	0.6378	3.96
7	-7.238	2.18	5.985	7	-2.759	2.945	5.127
8	-6.794	2.301	4.477	8	-2.744	2.347	4.186
9	-6.557	2.767	6.431	9	-2.712	2.725	3.941
Staurosporine				Methionine			
Tyrosine							
mode	affinity (kcal/mol)	dist from best mode rmsd l.b.   rmsd u.b.					
1	-5.583	0	0				
2	-5.566	1.771	2.075				
3	-5.397	1.754	2.324				
4	-5.088	3.643	6.545				
5	-5.042	3.746	6.551				
6	-4.973	3.788	6.647				
7	-4.722	2.35	2.852				
8	-4.375	4.588	6.386				
9	-4.312	2.752	3.364				

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<table border="1"> <thead> <tr> <th>mode</th> <th>affinity (kcal/mol)</th> <th colspan="2">dist from best mode rmsd l.b.   rmsd u.b.</th> </tr> </thead> <tbody> <tr><td>1</td><td>-9.144</td><td>0</td><td>0</td></tr> <tr><td>2</td><td>-8.976</td><td>2.709</td><td>5.878</td></tr> <tr><td>3</td><td>-8.906</td><td>3.688</td><td>4.808</td></tr> <tr><td>4</td><td>-8.633</td><td>3.309</td><td>7.743</td></tr> <tr><td>5</td><td>-8.6</td><td>2.375</td><td>5.937</td></tr> <tr><td>6</td><td>-8.529</td><td>2.519</td><td>4.064</td></tr> <tr><td>7</td><td>-8.084</td><td>2.503</td><td>3.359</td></tr> </tbody> </table>				mode	affinity (kcal/mol)	dist from best mode rmsd l.b.   rmsd u.b.		1	-9.144	0	0	2	-8.976	2.709	5.878	3	-8.906	3.688	4.808	4	-8.633	3.309	7.743	5	-8.6	2.375	5.937	6	-8.529	2.519	4.064	7	-8.084	2.503	3.359	<table border="1"> <thead> <tr> <th>mode</th> <th>affinity (kcal/mol)</th> <th colspan="2">dist from best mode rmsd l.b.   rmsd u.b.</th> </tr> </thead> <tbody> <tr><td>1</td><td>-2.917</td><td>0</td><td>0</td></tr> <tr><td>2</td><td>-2.891</td><td>7.764</td><td>8.422</td></tr> <tr><td>3</td><td>-2.816</td><td>8.258</td><td>9.3</td></tr> <tr><td>4</td><td>-2.759</td><td>7.902</td><td>9.44</td></tr> <tr><td>5</td><td>-2.686</td><td>1.418</td><td>3.657</td></tr> <tr><td>6</td><td>-2.594</td><td>7.789</td><td>8.458</td></tr> <tr><td>7</td><td>-2.547</td><td>1.881</td><td>2.213</td></tr> <tr><td>8</td><td>-2.547</td><td>8.467</td><td>9.647</td></tr> <tr><td>9</td><td>-2.49</td><td>2.944</td><td>3.425</td></tr> </tbody> </table>				mode	affinity (kcal/mol)	dist from best mode rmsd l.b.   rmsd u.b.		1	-2.917	0	0	2	-2.891	7.764	8.422	3	-2.816	8.258	9.3	4	-2.759	7.902	9.44	5	-2.686	1.418	3.657	6	-2.594	7.789	8.458	7	-2.547	1.881	2.213	8	-2.547	8.467	9.647	9	-2.49	2.944	3.425								
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## Lampiran 12. Hasil Residu Asam Amino

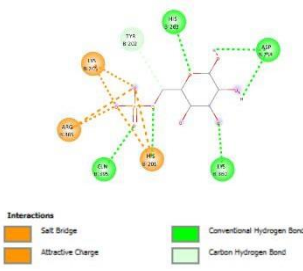
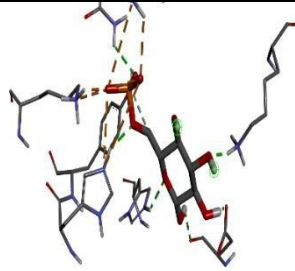
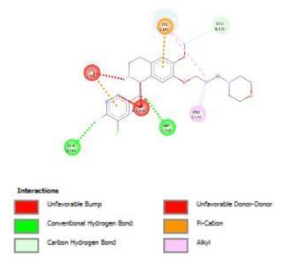
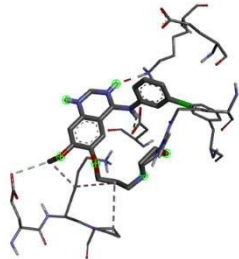
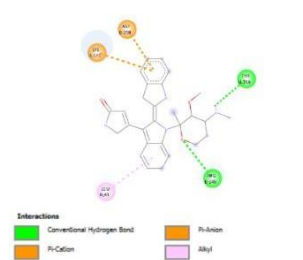
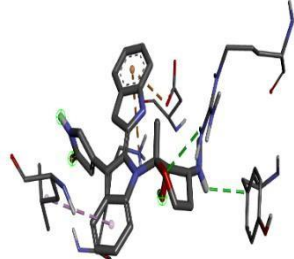
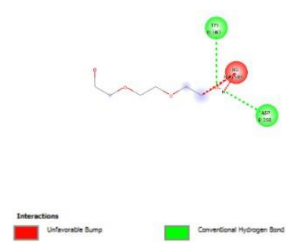
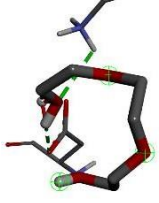
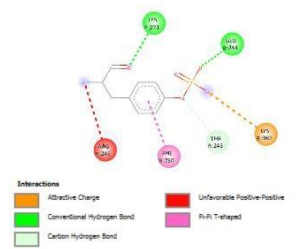
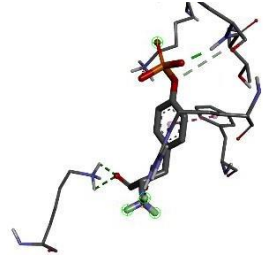
Protein	Senyawa	Keterangan Interaksi Residu		
		Ikatan Hidrogen		Ikatan Hidrofobik
		Residu	Jarak	
GAPDH	Ligan Alami	LYS205	1.99	
		ARG365	2.78	
		HIS201	2.04	
		HIS263	2.35	
		LYS360	1.92	
		GLN395	2.47	
		ASP258	2.46	
	Gefitinib	TYR202	3.77	
		GLU244	2.61	LYS171
		ASP258	2.31	PRO172
	Staurosporine	GLU170	3.33	
		ARG246	2.96	LEU43
	Methionine	TYR249	3.09	
		LYS360*	2.93	
	Tyrosine	ASP258***	2.41	
		LYS171	2.45	PHE250
		GLU244**	1.84	
AKT1	Ligan Alami	THR243	3.78	
				ILE84
				TRP80
				LYS268
				ILE84
				LEU264
				VAL270
	Gefitinib	THR82	3.53	LEU210
				TRP80
				LEU264
	Staurosporine			TYR272
				LEU210
	Methionine			VAL270
		ARG273	2.88	TYR272**
	Tyrosine	CYS296	2.82	ILE84*
		GLN79	1.93	ARG273
		ASN54	2.87	
EGFR	Ligan Alami	VAL271	2.82	
		TYR272	2.30	
		TRP280	2.58	LEU264**
EGFR	Ligan Alami	VAL271	2.65	
		TYR272	2.11	
		MET793	2.60	LEU718
	Gefitinib	ASN842	3.68	CYS797
				LYS745
				LEU788
				VAL726
	Staurosporine			LEU844
		MET793	2.85	ALA743
		ARG841	3.73	CYS797
EGFR	Ligan Alami			LYS745
				LEU788
EGFR	Ligan Alami			VAL726
				LEU718*
EGFR	Ligan Alami			ALA743**

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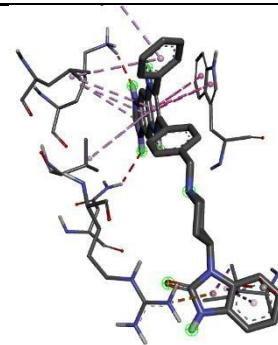
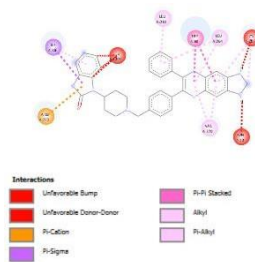
				CYS797*** LEU844* VAL726***
	Methionine	THR854	2.27	
		ASN842*	1.95	
		GLU726	3.48	
	Tyrosine	MET793***	2.26	VAL726***
		THR854	2.34	ALA743**
SCR	Ligan Alami	ASP855	2.60	LEU844*
		LYS44	2.88	PHE8
		ASP98	2.94	VAL10
		ARG13	2.94	
		GLN51	1.93	
		TRP38	2.51	
		LEU52	2.25	
		SER65	2.11	
		GLN64	2.08	
	Gefitinib	GLN51	3.00	GLY205 PHE8 VAL35 TRP38 ARG13
	Staurosporine	TYR7	2.40	TYR108
		GLY12	3.75	PHE8*** VAL35**
	Methionine	ARG13*	2.99	
		LEU52*	3.69	
	Tyrosine	ARG13*	2.60	PHE8***
		GLY205	2.14	
TP53	Ligan Alami	ASPP1520	2.73	TYR1500
		ASP1521	2.23	MET1548
		SER1503	2.34	
	Gefitinib	ASN1498	2.56	TYR 1500
		TYR1552	2.14	LEU1547
		ASP1550	2.48	
	Staurosporine	SER1548	2.34	LEU1547**
		ASP1550**	3.28	ASP1550 GLU1551 ALA1585 TYR1552
	Methionine	ASP1550**	2.12	
	Tyrosine	ASN1948**	2.07	
		ASP1521*	2.54	

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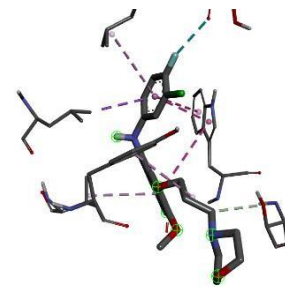
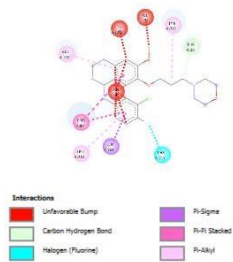
### Lampiran 13. Visualisasi 2D dan 3D Interaksi Residu Asam Amino

Protein	Senyawa Uji	Visualisasi 2D	Visualisasi 3D
GAPDH	Ligan Alami	 <p>Interactions</p> <ul style="list-style-type: none"> <li>Salt Bridge</li> <li>Attractive Charge</li> <li>Conventional Hydrogen Bond</li> <li>Carbon Hydrogen Bond</li> </ul>	
	Gefitinib	 <p>Interactions</p> <ul style="list-style-type: none"> <li>Unfavorable Bump</li> <li>Conventional Hydrogen Bond</li> <li>Carbon Hydrogen Bond</li> <li>Unfavorable Donor-Donor</li> <li>Pi-Cation</li> <li>Alkyl</li> </ul>	
	Staurosporine	 <p>Interactions</p> <ul style="list-style-type: none"> <li>Conventional Hydrogen Bond</li> <li>Pi-Cation</li> <li>Pi-Anion</li> <li>Alkyl</li> </ul>	
	Methionine	 <p>Interactions</p> <ul style="list-style-type: none"> <li>Unfavorable Bump</li> <li>Conventional Hydrogen Bond</li> </ul>	
	Tyrosine	 <p>Interactions</p> <ul style="list-style-type: none"> <li>Attractive Charge</li> <li>Conventional Hydrogen Bond</li> <li>Carbon Hydrogen Bond</li> <li>Unfavorable Positive-Positive</li> <li>Pi-Pi T-shaped</li> </ul>	

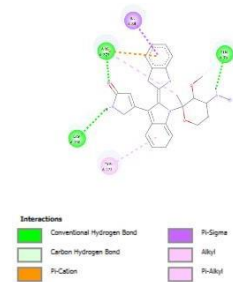
AKT1 Ligan Alami



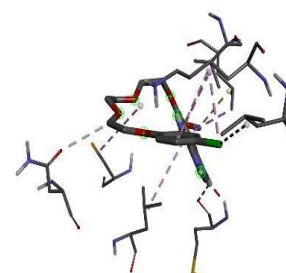
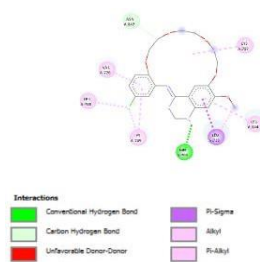
Gefitinib



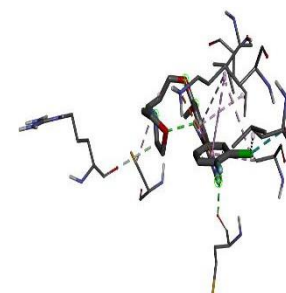
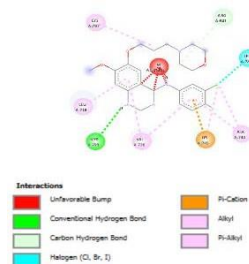
Staurosporine



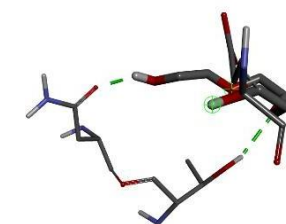
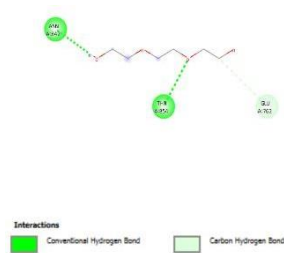
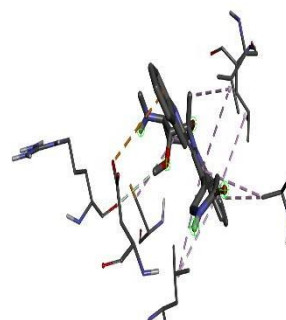
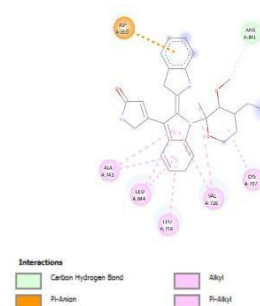
## Gefitinib



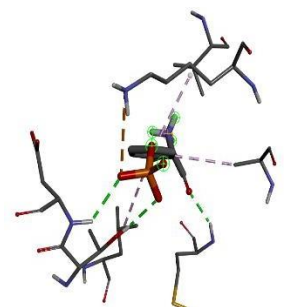
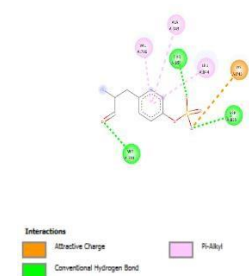
## Staurosporine



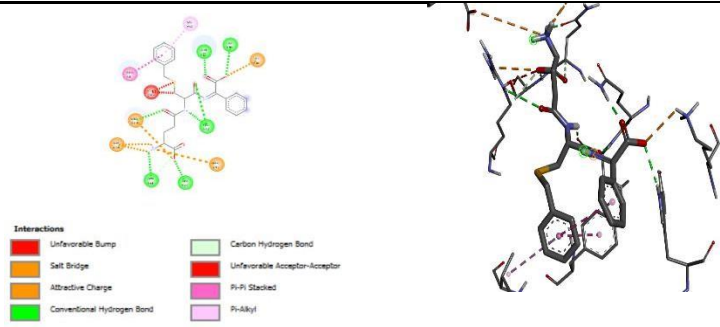
## Methionine



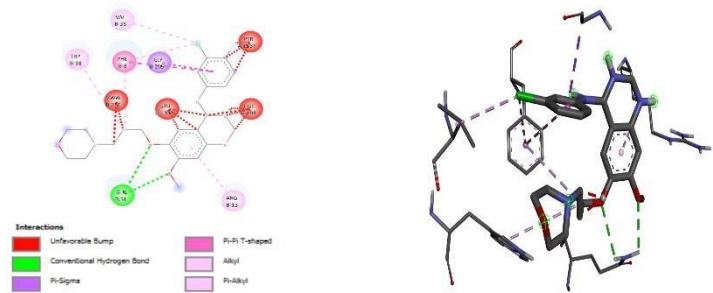
## Tyrosine



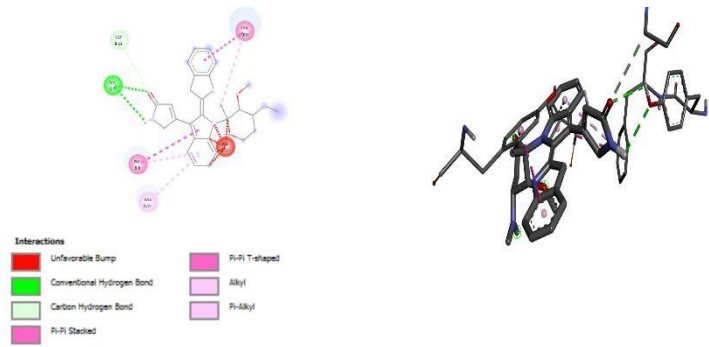
SCR Ligan Alami



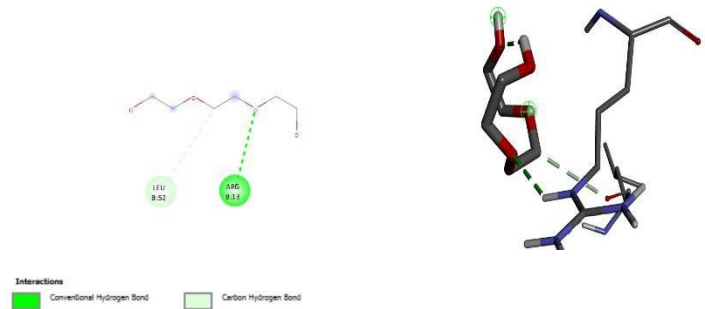
Gefitinib



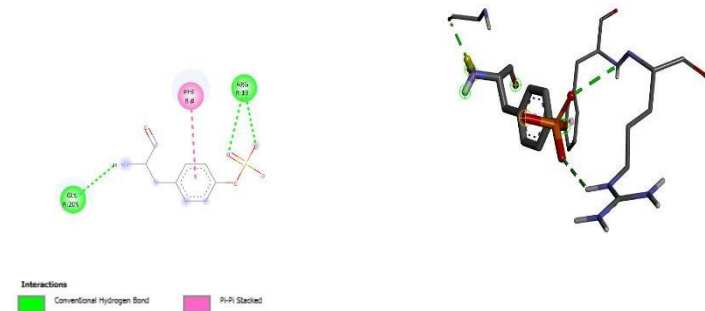
Staurosporine



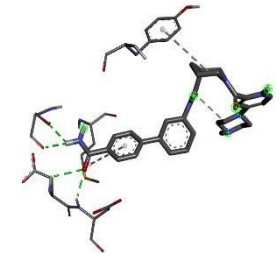
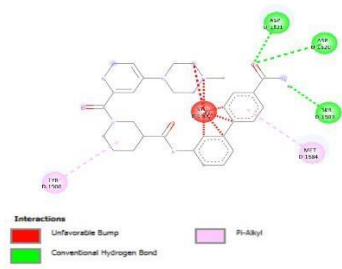
Methionine



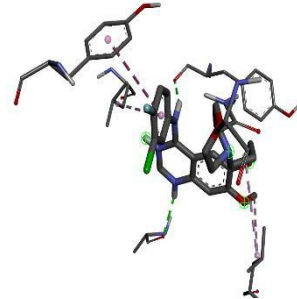
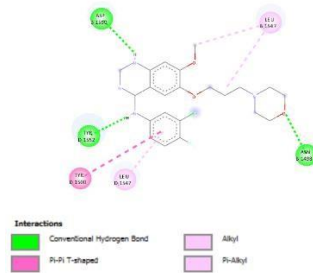
Tyrosine



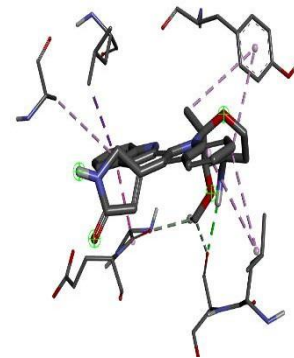
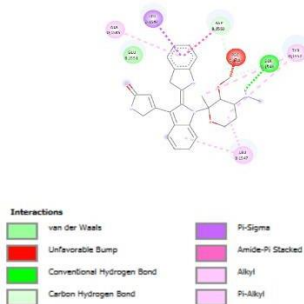
## TP53 Ligan Alami



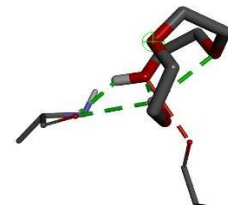
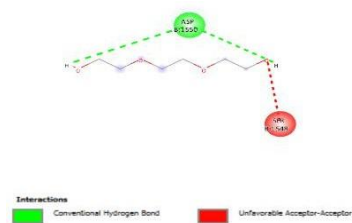
## Gefitinib



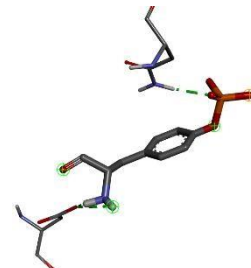
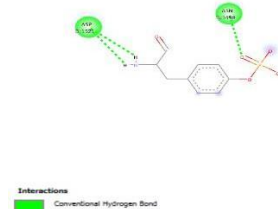
## Staurosporine



## Methionine




## Tyrosine



## Keterangan:

- \* : asam amino yang mirip dengan ligan alami atau native ligan
- \*\* : asam amino yang mirip senyawa pembeding (gefitinib)
- \*\*\* : asam amino yang mirip ligan alami dan senyawa pembeding (gefitinib).

## Lampiran 15. Formulir Pernyataan Selesai Revisi



**FAKULTAS ILMU KESEHATAN DAN TEKNOLOGI  
'AISYIYAH PALEMBANG  
PROGRAM STUDI S1 FARMASI**

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Kec. Alang-alang LebarKM. 7,5 Palembang 30152 Telp. 0711-421981  
[www.unisa-palembang.ac.id](http://www.unisa-palembang.ac.id) [farmasi.aisyiyah@gmail.com](mailto:farmasi.aisyiyah@gmail.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ


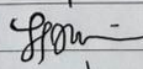
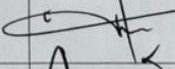
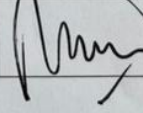
**FORMULIR  
PERNYATAAN SELESAI REVISI SKRIPSI\*)  
(S-06)**

Yang bertandatangan dibawah ini, tim penguji Skripsi 1/ Skripsi 2\*):

Nama Mahasiswa : Dylla Lutfia Azzahra  
NIM : 214820103007  
Judul Penelitian : Eksplorasi Senyawa Potensial Antikanker Paru Dari Ekstrak Daun Kemang ( Mangifera kemanga J.) Dengan Metode In Silico


Pembimbing 1 : Dr. Apt. Shaum Shiyan, M.SC  
Pembimbing 2 : Intan Trisakti, M.Farm  
Tanggal Ujian : 13 Agustus 2025

Menerangkan bahwa naskah Proposal/ Skripsi\*) telah selesai direvisi oleh tim penguji.

Nama	Tanda Tangan	Tanggal
1. Dr. Apt.Shaum Shiyan, M.SC		15-09-2025
2. Intan Trisakti, M.Farm		15-09-2025
3. Apt. Galih Pratiwi M.Pharm, Sci		18/09
4. Apt.Onny Indriani, M.Farm		30/09

\*) : Coret yang tidak perlu.

## Lampiran 15. Formulir Bimbingan Skripsi



**SEKOLAH TINGGI ILMU KESEHATAN 'AISYIYAH PALEMBANG**  
**PROGRAM STUDI S1 FARMASI**  
 Jl. Kol. H. Burlian –Lr. M. Husin No. 907 RT. 12/RW. 04 Kel. Karya Baru  
 Kec. Alang-alang LebarKM. 7,5 Palembang 30152 Telp. 0711-421981  
[www.stikes-aisyiyah-palembang.ac.id](http://www.stikes-aisyiyah-palembang.ac.id) [farmasi.aisyiyah@gmail.com](mailto:farmasi.aisyiyah@gmail.com)

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**FORMULIR BIMBINGAN SKRIPSI**

Nama : Dylla Lutfia Azzahra

NIM : 214820103007

Nama Pembimbing : 1. Dr. Apt. Shaum Shiyan, M.Sc  
 2. Intan Trisakti, M.Farm

Judul Skripsi : Ekspolarasi Senyawa Potensial Anti Kanker Paru Dari Ekstrak  
 Daun Kemang (*Mangifera caesia* J.) dengan Metode InSilico

No.	Tanggal Konsultasi	Keterangan	Paraf Pembimbing
1.	20 Januari 2025	Revisi Proposal	✍
2.	28 Januari 2025	Revisi Porposal	✍
3.	05 Febuari 2025	Revisi Proposal	✍
4.	20 Febuari 2025	Revisi Proposal	✍
5.	01 Maret 2025	Revisi Skripsi	✍
6.	15 Maret 2025	Revisi Skripsi	✍
7.	01 April 2025	Revisi Skripsi	✍
8.	10 April 2025	Revisi Skripsi	✍
9.	28 April 2025	Revisi Skripsi	✍
10.	10 Mei 2025	Revisi Skripsi	✍
11.	25 Mei 2025	Revisi Skripsi	✍
12.	01 Juli 2025	Revisi Skripsi	✍
14.	15 Juli 2025	Revisi Skripsi	✍
15.	27 Juli 2025	Revisi Skripsi	✍
16.	30 Juli 2025	Revisi Skripsi	✍



**SEKOLAH TINGGI ILMU KESEHATAN 'AISYIYAH PALEMBANG**  
**PROGRAM STUDI S1 FARMASI**

Jl. Kol. H. Burlian –Lr. M. Husin No. 907 RT. 12/RW. 04 Kel. Karya Baru  
 Kec. Alang-alang LebarKM. 7,5 Palembang 30152 Telp. 0711-421981

[www.stikes-aisyiyah-palembang.ac.id](http://www.stikes-aisyiyah-palembang.ac.id)

[farmasi.aisyiyah@gmail.com](mailto:farmasi.aisyiyah@gmail.com)

**FORMULIR BIMBINGAN SKRIPSI**

Nama : Dylla Lutfia Azzahra  
 NIM : 214820103007  
 Nama Pembimbing : 1. Dr. Apt. Shaum Shiyan, M.Sc  
 2. Intan Trisakti, M.Farm  
 Judul Skripsi : Ekspolarasi Senyawa Potensial Anti Kanker Paru Dari Ekstrak  
 Daun Kemang (*Mangifera caesia* J.) dengan Metode InSilico

No.	Tanggal Konsultasi	Keterangan	Paraf Pembimbing
1.	21 Januari 2025	Revisi Proposal	
2.	29 Januari 2025	Revisi Porposal	
3.	06 Febuari 2025	Revisi Proposal	
4.	22 Febuari 2025	Revisi Proposal	
5.	02 Maret 2025	Revisi Skripsi	
6.	16 Maret 2025	Revisi Skripsi	
7.	01 April 2025	Revisi Skripsi	
8.	11 April 2025	Revisi Skripsi	
9.	28 April 2025	Revisi Skripsi	
10.	11 Mei 2025	Revisi Skripsi	
11.	25 Mei 2025	Revisi Skripsi	
12.	02 Juli 2025	Revisi Skripsi	
14.	15 Juli 2025	Revisi Skripsi	
15.	28 Juli 2025	Revisi Skripsi	
16.	30 Juli 2025	Revisi Skripsi	