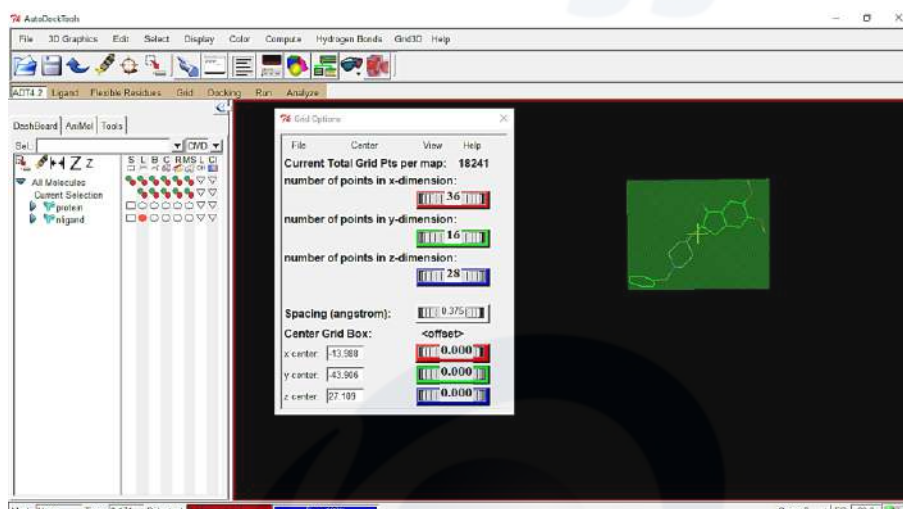
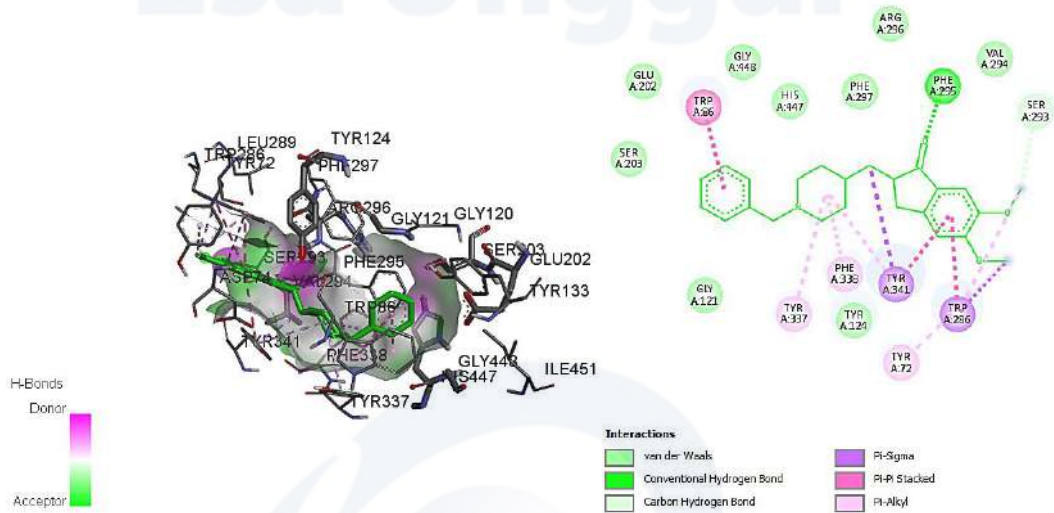


LAMPIRAN

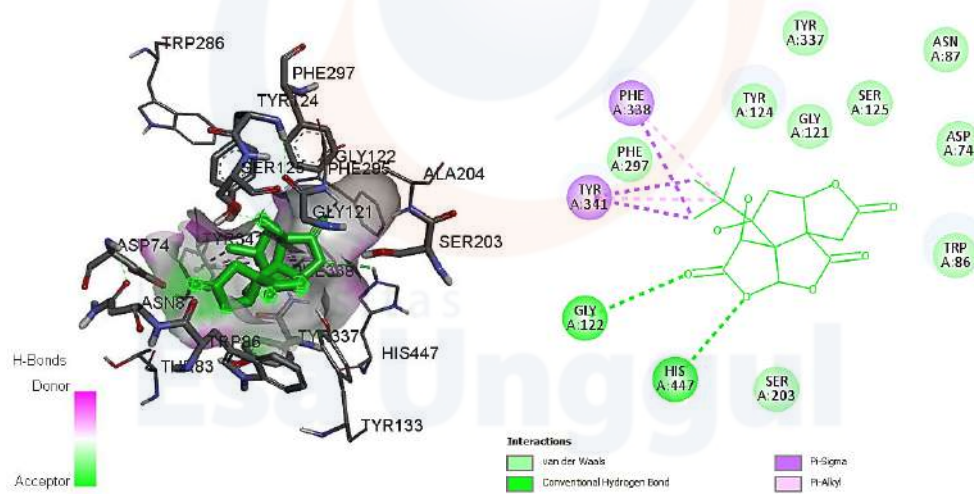
Lampiran 1. *Grid box* ligan asli



Lampiran 4. Visualisasi interaksi molekuler dan residu asam amino untuk ligan asli dan ligan uji dalam bentuk 3D dan 2D

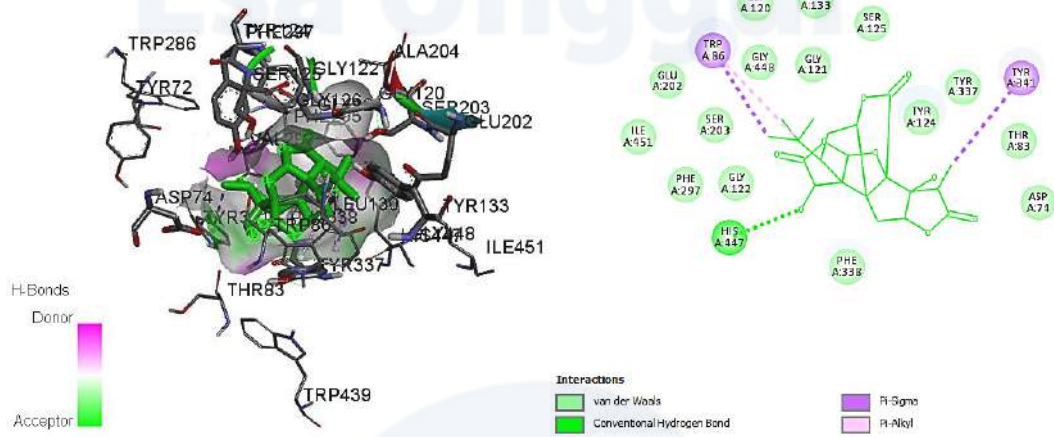


Donepezil (ligan asli) dengan protein

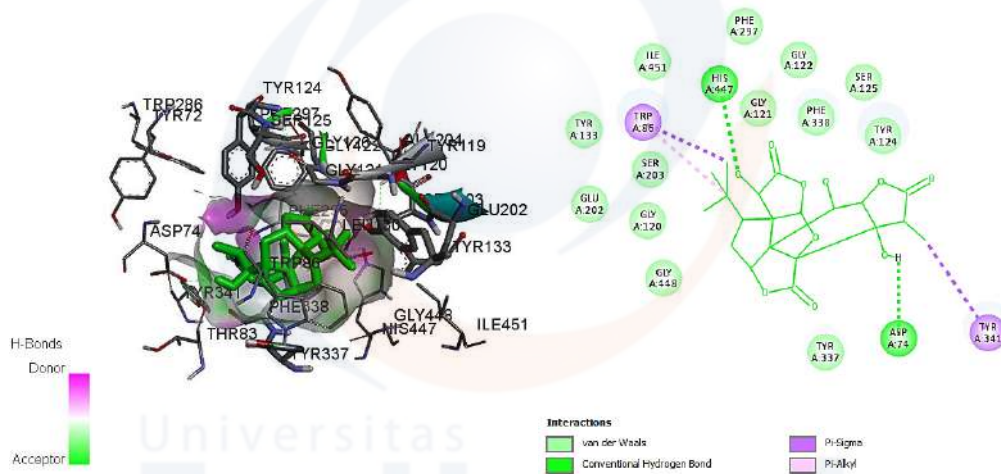


Bilobalida (ligan uji 1) dan protein

(lanjutan)

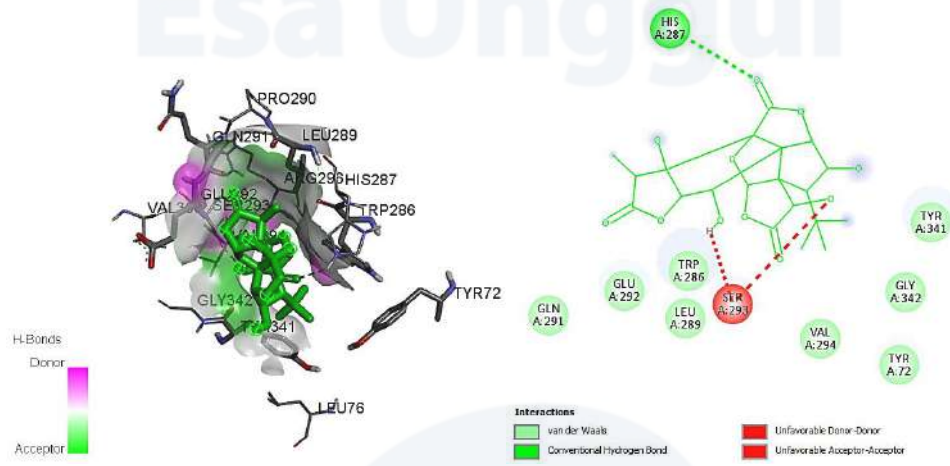


Ginkgolida A (ligan uji 2) dan protein

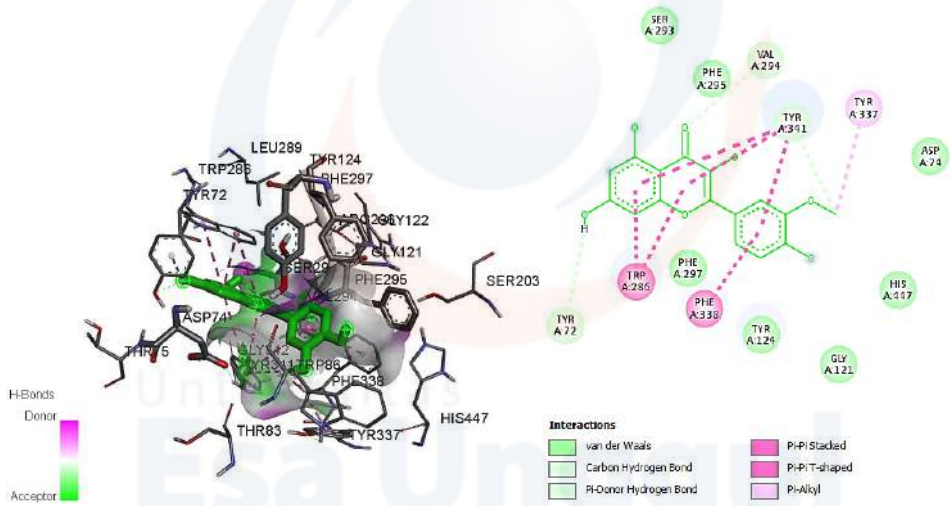


Ginkgolida B (ligan uji 3) dan protein

(lanjutan)

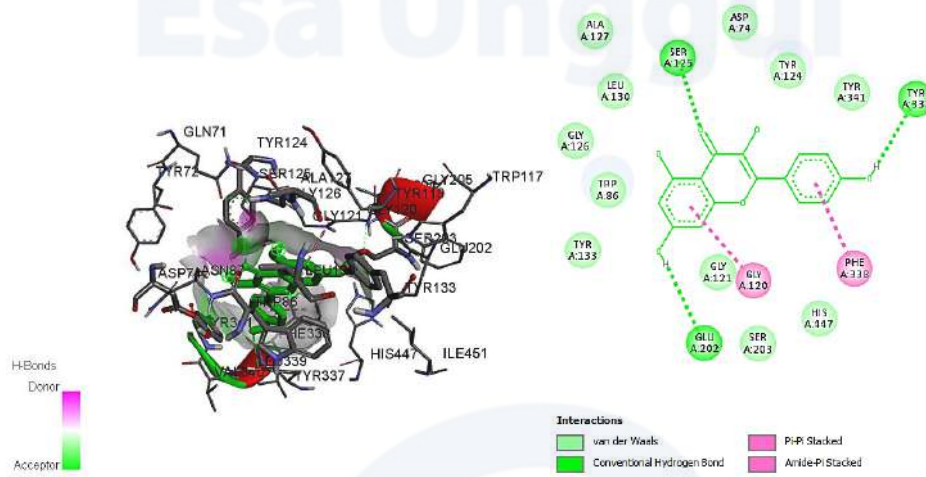


Ginkgolida C (ligan uji 4) dan protein

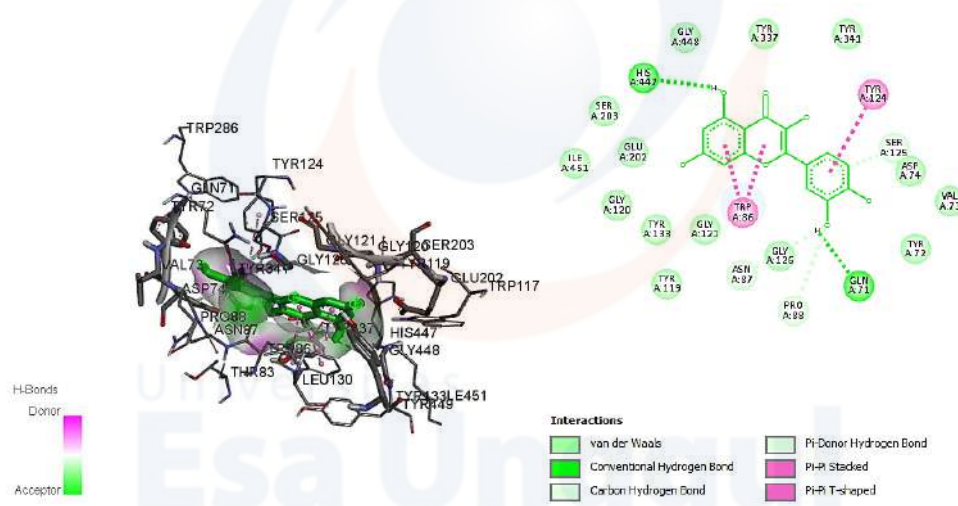


Isorhamnetin (ligan uji 5) dan protein

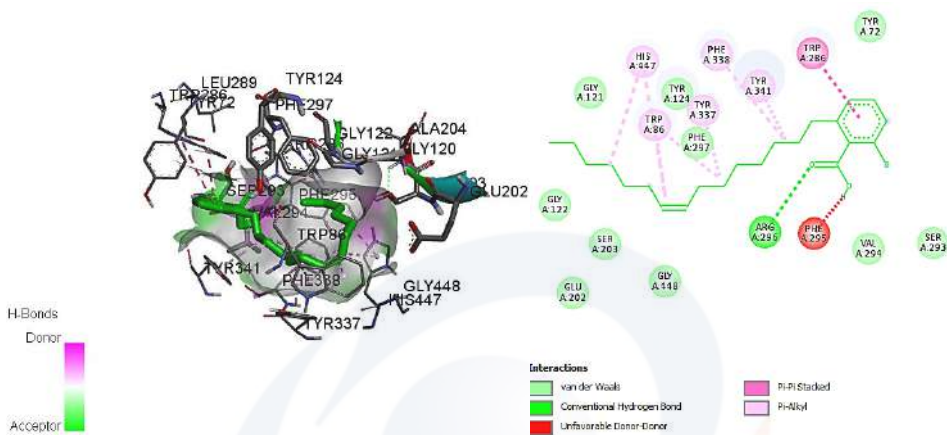
(lanjutan)



Kaempferol (ligan uji 6) dan protein

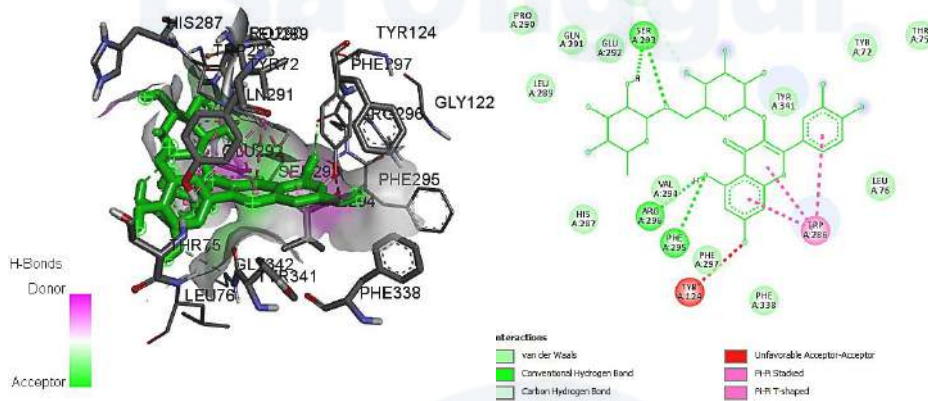


Kuersetin (ligan uji 7) dan protein

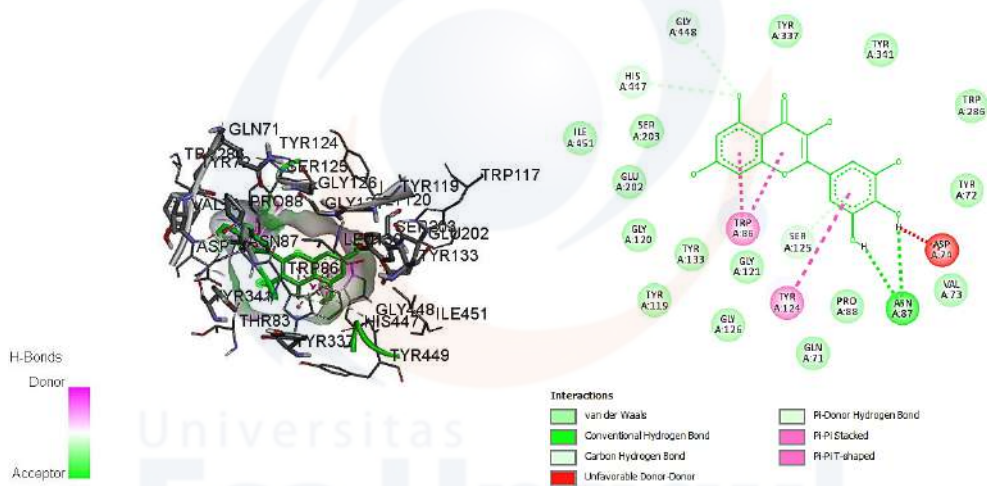


Asam ginkgolik (ligan uji 8) dan protein

(lanjutan)



Rutin (ligan uji 9) dan protein



Mirisetin (ligan uji 10) dan protein

Lampiran 5. Ikatan ligan asli dan ligan uji

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAW
1 A:PE25H1N - A:EE26Q4O24	<input checked="" type="checkbox"/>	Yes	Ligand No. 1,06942		Hydrogen Bond	Conventional Hydrogen Bond	A:PE25H1N	H-Donor	A:EE26Q4O24	H-Acceptor	109,132	164,108
2 A:EE26Q4C28 - A:SR23O3O	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,06831		Hydrogen Bond	Carbon Hydrogen Bond	A:EE26Q4C28	H-Donor	A:SR23O3O	H-Acceptor		
3 A:EE26Q4C28 - A:TRP36	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,64313		Hydrophobic	P-Sigma	A:EE26Q4C28	C-H	A:TRP36	P-Orbitals		
4 A:EE26Q4C28 - A:TYR341	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,59437		Hydrophobic	P-Sigma	A:EE26Q4C28	C-H	A:TYR341	P-Orbitals		
5 A:TRP36 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,46314		Hydrophobic	P-R Stacked	A:TRP36	P-Orbitals	A:EE26Q4C28	P-Orbitals		
6 A:TRP36 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,89021		Hydrophobic	P-R Stacked	A:TRP36	P-Orbitals	A:EE26Q4C28	P-Orbitals		
7 A:TRP36 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 5,11273		Hydrophobic	P-R Stacked	A:TRP36	P-Orbitals	A:EE26Q4C28	P-Orbitals		
8 A:TRP36 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,82202		Hydrophobic	P-R Stacked	A:TRP36	P-Orbitals	A:EE26Q4C28	P-Orbitals		
9 A:TYR341 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 5,05905		Hydrophobic	P-R Stacked	A:TYR341	P-Orbitals	A:EE26Q4C28	P-Orbitals		
10 A:TYR341 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,24984		Hydrophobic	P-Alkyl	A:TYR341	P-Orbitals	A:EE26Q4C28	Alkyl		
11 A:TRP36 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 5,37144		Hydrophobic	P-Alkyl	A:TRP36	P-Orbitals	A:EE26Q4C28	Alkyl		
12 A:TRP36 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,16852		Hydrophobic	P-Alkyl	A:TRP36	P-Orbitals	A:EE26Q4C28	Alkyl		
13 A:TRP36 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,58978		Hydrophobic	P-Alkyl	A:TRP36	P-Orbitals	A:EE26Q4C28	Alkyl		
14 A:PE337 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 5,05927		Hydrophobic	P-Alkyl	A:PE337	P-Orbitals	A:EE26Q4C28	Alkyl		
15 A:TYR341 - A:EE26Q4C28	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,06895		Hydrophobic	P-Alkyl	A:TYR341	P-Orbitals	A:EE26Q4C28	Alkyl		

Ligan asli (donepezil)

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAW
1 A:GLY122H1N - L:UNK0:O	<input checked="" type="checkbox"/>	Yes	Ligand No. 2,95723		Hydrogen Bond	Conventional Hydrogen Bond	A:GLY122H1N	H-Donor	L:UNK0:O	H-Acceptor	93,859	106,828
2 A:HS447HE2 - L:UNK0:O	<input checked="" type="checkbox"/>	Yes	Ligand No. 2,92485		Hydrogen Bond	Conventional Hydrogen Bond	A:HS447HE2	H-Donor	L:UNK0:O	H-Acceptor	116	118,912
3 A:UNK0:C - A:PE338	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,77274		Hydrophobic	P-Sigma	L:UNK0:C	C-H	A:PE338	P-Orbitals		
4 A:UNK0:C - A:TYR341	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,82266		Hydrophobic	P-Sigma	L:UNK0:C	C-H	A:TYR341	P-Orbitals		
5 A:UNK0:C - A:TYR341	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,02023		Hydrophobic	P-Sigma	L:UNK0:C	C-H	A:TYR341	P-Orbitals		
6 A:PE338 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,96711		Hydrophobic	P-Alkyl	A:PE338	P-Orbitals	L:UNK0:C	Alkyl		
7 A:TYR341 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,92557		Hydrophobic	P-Alkyl	A:TYR341	P-Orbitals	L:UNK0:C	Alkyl		

Bilobalida

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAW
1 A:HS447HE2 - L:UNK0:O	<input checked="" type="checkbox"/>	Yes	Ligand No. 2,3132		Hydrogen Bond	Conventional Hydrogen Bond	A:HS447HE2	H-Donor	L:UNK0:O	H-Acceptor	99,899	110,476
2 L:UNK0:C - A:TYR341	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,96665		Hydrophobic	P-Sigma	L:UNK0:C	C-H	A:TYR341	P-Orbitals		
3 L:UNK0:C - A:TRP36	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,40696		Hydrophobic	P-Sigma	L:UNK0:C	C-H	A:TRP36	P-Orbitals		
4 A:TRP36 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 5,12735		Hydrophobic	P-Alkyl	A:TRP36	P-Orbitals	L:UNK0:C	Alkyl		
5 A:TRP36 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,33982		Hydrophobic	P-Alkyl	A:TRP36	P-Orbitals	L:UNK0:C	Alkyl		

Ginkgolida A

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAW
1 A:HS447HE2 - L:UNK0:O	<input checked="" type="checkbox"/>	Yes	Ligand No. 2,24244		Hydrogen Bond	Conventional Hydrogen Bond	A:HS447HE2	H-Donor	L:UNK0:O	H-Acceptor	96,52	118,21
2 L:UNK0:H - A:ASP74:OD2	<input checked="" type="checkbox"/>	Yes	Ligand No. 2,45876		Hydrogen Bond	Conventional Hydrogen Bond	L:UNK0:H	H-Donor	A:ASP74:OD2	H-Acceptor	130,67	142,21
3 A:UNK0:C - A:TYR341	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,58088		Hydrophobic	P-Sigma	L:UNK0:C	C-H	A:TYR341	P-Orbitals		
4 A:UNK0:C - A:TRP36	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,45251		Hydrophobic	P-Sigma	L:UNK0:C	C-H	A:TRP36	P-Orbitals		
5 A:TRP36 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 5,0181		Hydrophobic	P-Alkyl	A:TRP36	P-Orbitals	L:UNK0:C	Alkyl		
6 A:TRP36 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,18952		Hydrophobic	P-Alkyl	A:TRP36	P-Orbitals	L:UNK0:C	Alkyl		

Ginkgolida B

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAW
1 A:HS287HE2 - L:UNK0:O	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,08112		Hydrogen Bond	Conventional Hydrogen Bond	A:HS287HE2	H-Donor	L:UNK0:O	H-Acceptor	119,778	151,862

Ginkgolida C

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAW
1 L:UNK0:H - L:UNK0:O	<input checked="" type="checkbox"/>	Yes	Ligand No. 2,39571		Hydrogen Bond	Conventional Hydrogen Bond	L:UNK0:H	H-Donor	L:UNK0:O	H-Acceptor	97,837	95,
2 A:VAL291CA - L:UNK0:O	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,22357		Hydrogen Bond	Carbon Hydrogen Bond	A:VAL291CA	H-Donor	L:UNK0:O	H-Acceptor		
3 L:UNK0:H - A:TYR341:OH	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,35404		Hydrogen Bond	Carbon Hydrogen Bond	L:UNK0:H	H-Donor	A:TYR341:OH	H-Acceptor		
4 L:UNK0:H - A:TYR72	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,16558		Hydrogen Bond	P-Donor Hydrogen Bond	L:UNK0:H	H-Donor	A:TYR72	P-Orbitals		
5 A:TRP36 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,21238		Hydrophobic	P-R Stacked	A:TRP36	P-Orbitals	L:UNK0:C	P-Orbitals		
6 A:TRP36 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,57223		Hydrophobic	P-R Stacked	A:TRP36	P-Orbitals	L:UNK0:C	P-Orbitals		
7 A:TRP36 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 3,68058		Hydrophobic	P-R Stacked	A:TRP36	P-Orbitals	L:UNK0:C	P-Orbitals		
8 A:TYR341 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,37125		Hydrophobic	P-R Stacked	A:TYR341	P-Orbitals	L:UNK0:C	P-Orbitals		
9 A:TYR341 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 5,33502		Hydrophobic	P-R Stacked	A:TYR341	P-Orbitals	L:UNK0:C	P-Orbitals		
10 A:PE338 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,78812		Hydrophobic	P-PII-shaped	A:PE338	P-Orbitals	L:UNK0:C	P-Orbitals		
11 A:TYR341 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,93656		Hydrophobic	P-PII-shaped	A:TYR341	P-Orbitals	L:UNK0:C	P-Orbitals		
12 A:TYR337 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,41868		Hydrophobic	P-Alkyl	A:TYR337	P-Orbitals	L:UNK0:C	Alkyl		
13 A:TYR341 - L:UNK0:C	<input checked="" type="checkbox"/>	Yes	Ligand No. 4,99072		Hydrophobic	P-Alkyl	A:TYR341	P-Orbitals	L:UNK0:C	Alkyl		

Isorhamnetin

(lanjutan)

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAY
1 A:SR122012 - UNK0:O	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,42633	Hydrogen Bond	Conventional Hydrogen Bond	A:SR122012	H-Donor	UNK0:O	H-Acceptor	129,122	
2 UNK0:H - A:TYR337D	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,9558	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	A:TYR337D	H-Acceptor	95,846	
3 UNK0:H - A:GLU202OE1	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,88404	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	A:GLU202OE1	H-Acceptor	116,753	
4 A:PIE338 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,59224	Hydrophobic	Pi-Pi Stacked	A:PIE338	Pi-Orbitals	UNK0	Pi-Orbitals		
5 A:GLY120C, O:GLY122LH - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 3,66365	Hydrophobic	Amide Pi Stacked	A:GLY120C, O:GLY122LH	Amide	UNK0	Pi-Orbitals		

Kaempferol

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAY
1 UNK0:H - A:GLN710E1	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,83616	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	A:GLN710E1	H-Acceptor	117,673	194,438
2 UNK0:H - A:HS447D	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,95141	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	A:HS447D	H-Acceptor	94,878	119,917
3 UNK0:H - UNK0:O	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,46538	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	UNK0:O	H-Acceptor	93,654	95,428
4 A:ASN187CA - UNK0:O	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 3,62108	Hydrogen Bond	Carbon Hydrogen Bond	A:ASN187CA	H-Donor	UNK0:O	H-Acceptor		
5 A:PRO188CD - UNK0:O	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 3,73712	Hydrogen Bond	Carbon Hydrogen Bond	A:PRO188CD	H-Donor	UNK0:O	H-Acceptor		
6 A:HS447CD2 - UNK0:O	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 2,63517	Hydrogen Bond	Carbon Hydrogen Bond	A:HS447CD2	H-Donor	UNK0:O	H-Acceptor		
7 A:SER125HS - UNK0	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 2,70916	Hydrogen Bond	Pi-Donor Hydrogen Bond	A:SER125HS	H-Donor	UNK0	Pi-Orbitals		
8 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 3,09652	Hydrophobic	Pi-Pi Stacked	A:TRP86	Pi-Orbitals	UNK0	Pi-Orbitals		
9 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,57052	Hydrophobic	Pi-Pi Stacked	A:TRP86	Pi-Orbitals	UNK0	Pi-Orbitals		
10 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,39382	Hydrophobic	Pi-Pi Stacked	A:TRP86	Pi-Orbitals	UNK0	Pi-Orbitals		
11 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 3,82438	Hydrophobic	Pi-Pi Stacked	A:TRP86	Pi-Orbitals	UNK0	Pi-Orbitals		
12 A:TYR124 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 5,19525	Hydrophobic	Pi-Pi T-shaped	A:TYR124	Pi-Orbitals	UNK0	Pi-Orbitals		

Kuersetin

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAY	Theta
1 A:ARG206HN - UNK0:O	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,49231	Hydrogen Bond	Conventional Hydrogen Bond	A:ARG206HN	H-Donor	UNK0:O	H-Acceptor	151,093	155,707	
2 A:TRP286 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 5,2837	Hydrophobic	Pi-Pi Stacked	A:TRP286	Pi-Orbitals	UNK0	Pi-Orbitals			50,16
3 A:TRP286 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 5,02734	Hydrophobic	Pi-Pi Stacked	A:TRP286	Pi-Orbitals	UNK0	Pi-Orbitals			30,47
4 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,74823	Hydrophobic	Pi-Allyl	A:TRP86	Pi-Orbitals	UNK0	Allyl			
5 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,07738	Hydrophobic	Pi-Allyl	A:TRP86	Pi-Orbitals	UNK0	Allyl			
6 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 3,73772	Hydrophobic	Pi-Allyl	A:TRP86	Pi-Orbitals	UNK0	Allyl			
7 A:TYR337 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,03665	Hydrophobic	Pi-Allyl	A:TYR337	Pi-Orbitals	UNK0	Allyl			
8 A:PIE338 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,64155	Hydrophobic	Pi-Allyl	A:PIE338	Pi-Orbitals	UNK0	Allyl			
9 A:TYR341 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,02141	Hydrophobic	Pi-Allyl	A:TYR341	Pi-Orbitals	UNK0	Allyl			
10 A:HS447 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 5,43276	Hydrophobic	Pi-Allyl	A:HS447	Pi-Orbitals	UNK0	Allyl			
11 A:HS447 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,55386	Hydrophobic	Pi-Allyl	A:HS447	Pi-Orbitals	UNK0	Allyl			

Asam ginkgolik

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAY
1 A:SER203HN - UNK0:O	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,74773	Hydrogen Bond	Conventional Hydrogen Bond	A:SER203HN	H-Donor	UNK0:O	H-Acceptor	172,575	103,237
2 A:PIE205HN - UNK0:O	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,46514	Hydrogen Bond	Conventional Hydrogen Bond	A:PIE205HN	H-Donor	UNK0:O	H-Acceptor	105,071	94,567
3 UNK0:H - A:ARG206O	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,13849	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	A:ARG206O	H-Acceptor	159,353	119,697
4 UNK0:H - A:SER203OG	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,48892	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	A:SER203OG	H-Acceptor	136,496	112,35
5 UNK0:H - UNK0:O	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,73088	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	UNK0:O	H-Acceptor	136,307	93,823
6 A:GLY342CA - UNK0:O	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 3,40261	Hydrogen Bond	Carbon Hydrogen Bond	A:GLY342CA	H-Donor	UNK0:O	H-Acceptor		
7 UNK0:O - UNK0:O	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 3,28605	Hydrogen Bond	Carbon Hydrogen Bond	UNK0:O	H-Donor	UNK0:O	H-Acceptor		
8 A:TRP286 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 5,25499	Hydrophobic	Pi-Pi Stacked	A:TRP286	Pi-Orbitals	UNK0	Pi-Orbitals		
9 A:TRP286 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,60337	Hydrophobic	Pi-Pi Stacked	A:TRP286	Pi-Orbitals	UNK0	Pi-Orbitals		
10 A:TRP286 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,42089	Hydrophobic	Pi-Pi Stacked	A:TRP286	Pi-Orbitals	UNK0	Pi-Orbitals		
11 A:TRP286 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 5,53987	Hydrophobic	Pi-Pi T-shaped	A:TRP286	Pi-Orbitals	UNK0	Pi-Orbitals		
12 A:TRP286 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 5,06721	Hydrophobic	Pi-Pi T-shaped	A:TRP286	Pi-Orbitals	UNK0	Pi-Orbitals		

Rutin

Name	Visible	Color	Parent	Distance	Category	Types	From	From Chemistry	To	To Chemistry	Angle DHA	Angle HAY
1 UNK0:H - A:ASN187CD1	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,48647	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	A:ASN187CD1	H-Acceptor	141,416	155,844
2 UNK0:H - A:ASN187CD1	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 2,77355	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	A:ASN187CD1	H-Acceptor	111,798	111,79
3 UNK0:H - UNK0:O	<input checked="" type="checkbox"/>	Yes	Green	Ligand No. 1,90365	Hydrogen Bond	Conventional Hydrogen Bond	UNK0:H	H-Donor	UNK0:O	H-Acceptor	138,01	90,265
4 A:HS447CD2 - UNK0:O	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 3,60253	Hydrogen Bond	Carbon Hydrogen Bond	A:HS447CD2	H-Donor	UNK0:O	H-Acceptor		
5 A:GLY348CA - UNK0:O	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 3,4164	Hydrogen Bond	Carbon Hydrogen Bond	A:GLY348CA	H-Donor	UNK0:O	H-Acceptor		
6 A:SER123HS - UNK0	<input checked="" type="checkbox"/>	Yes	White	Ligand No. 2,69037	Hydrogen Bond	Pi-Donor Hydrogen Bond	A:SER123HS	H-Donor	UNK0	Pi-Orbitals		
7 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 3,92175	Hydrophobic	Pi-Pi Stacked	A:TRP86	Pi-Orbitals	UNK0	Pi-Orbitals		
8 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,57128	Hydrophobic	Pi-Pi Stacked	A:TRP86	Pi-Orbitals	UNK0	Pi-Orbitals		
9 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 4,30738	Hydrophobic	Pi-Pi Stacked	A:TRP86	Pi-Orbitals	UNK0	Pi-Orbitals		
10 A:TRP86 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 3,81194	Hydrophobic	Pi-Pi Stacked	A:TRP86	Pi-Orbitals	UNK0	Pi-Orbitals		
11 A:TYR124 - UNK0	<input checked="" type="checkbox"/>	Yes	Pink	Ligand No. 5,13844	Hydrophobic	Pi-Pi T-shaped	A:TYR124	Pi-Orbitals	UNK0	Pi-Orbitals		

Mirisetin

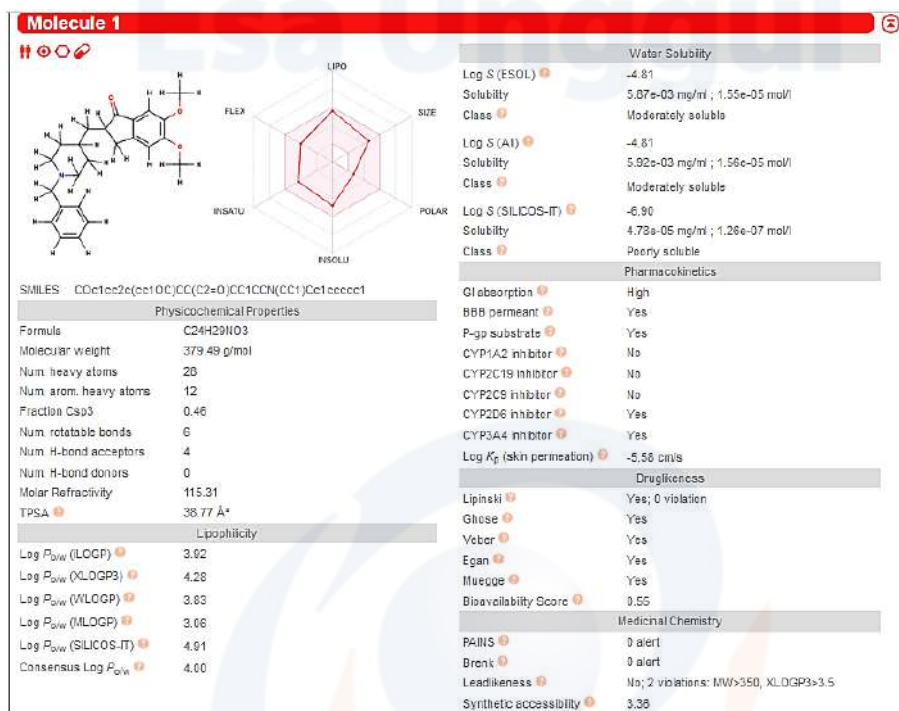
Lampiran 6. Kode SMILES dari ligan asli dan ligan uji

No.	Senyawa	Kode SMILES
1.	Donepezil (ligan asli)	<chem>COC1=C(OC)C=C2C(=O)C(CC3CCN(CC4=CC=CC=C4)CC3)CC2=C1</chem>
2.	Bilobalida (ligan uji 1)	<chem>[H]O[C@@]1([H])C(=O)O[C@@]2([H])OC(=O)[C@]34C([H])([H])C(=O)O[C@@]3([H])C([H])([H])[C@@](O[H])(C(C([H])([H])[H])(C([H])([H])[H])C([H])([H])[H])C([H])([H])[H])C@@]124</chem>
3.	Ginkgolida A (ligan uji 2)	<chem>[H]O[C@@]1([H])C(=O)O[C@@]2([H])O[C@]34C(=O)O[C@]5([H])C([H])([H])[C@@]([H])(C(C([H])([H])[H])(C([H])([H])[H])C([H])([H])[H])C@]12[C@]35C([H])([H])[C@]1([H])OC(=O)[C@@]([H])(C([H])([H])[H])[C@]41O[H]</chem>
4.	Ginkgolida B (ligan uji 3)	<chem>C[C@@H]1C(=O)O[C@H]2[C@@H](O)[C@@]34[C@H]5C[C@@H](C(C)(C)C)[C@@]33[C@@H](O)C(=O)O[C@H]3O[C@@]4(C(=O)O5)[C@@]12O</chem>
5.	Ginkgolida C (ligan uji 4)	<chem>C[C@@H]1C(=O)O[C@H]2[C@@H](O)[C@]34[C@@H]5OC(=O)[C@]3(O[C@@H]3OC(=O)[C@H](O)[C@]43[C@@H]([C@@H]5O)C(C)(C)C)[C@@]12O</chem>
6.	Isorhamnetin (ligan uji 5)	<chem>[H]OC1=C([H])C(O[H])=C2C(=O)C(O[H])=C(OC2=C1[H])C1=C([H])C(OC([H])([H])[H])=C(O[H])C([H])=C1[H]</chem>
7.	Kaempferol (ligan uji 6)	<chem>[H]OC1=C([H])C([H])=C(C([H])=C1[H])C1=C(O[H])C(=O)C2=C(O[H])C([H])=C(O[H])C([H])=C2O1</chem>
8.	Kuersetin (ligan uji 7)	<chem>[H]OC1=C([H])C(O[H])=C2C(=O)C(O[H])=C(OC2=C1[H])C1=C([H])C(O[H])=C(O[H])C([H])=C1[H]</chem>
9.	Asam ginkgolik (ligan uji 8)	<chem>CCCCC\C=C/CCCCCCC1=C(C(O)=O)C(O)=CC=C1</chem>
10.	Rutin (ligan uji 9)	<chem>C[C@@H]1O[C@@H](OC[C@H]2O[C@@H](OC3=C(OC4=CC(O)=CC(O)=C4C3=O)C3=CC(O)=C(O)C=C3)[C@H](O)[C@@H](O)[C@@H]2O)[C@H](O)[C@H](O)[C@H]1O</chem>

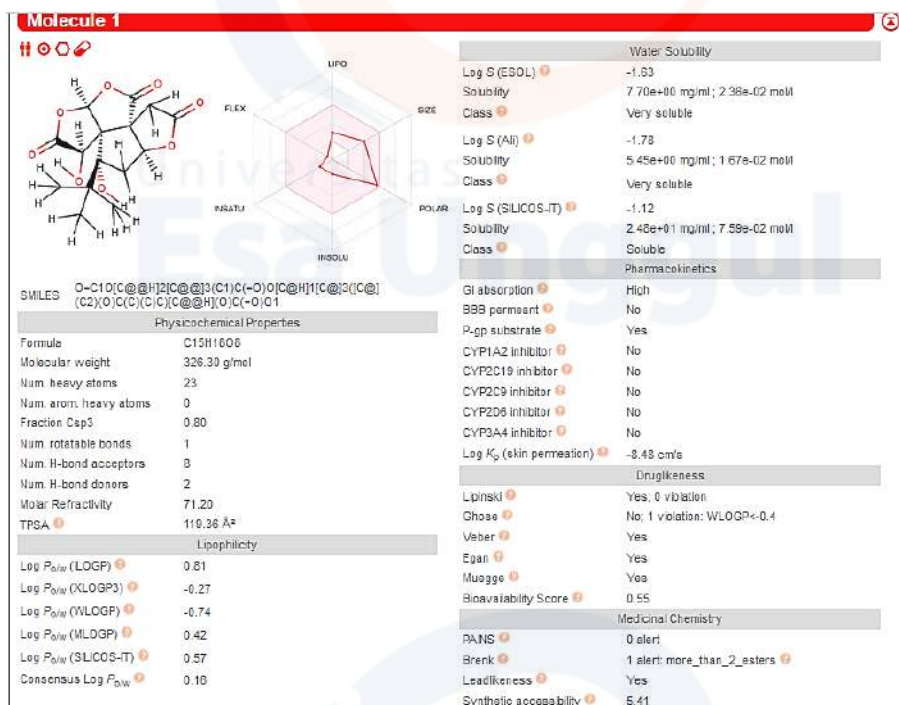
(lanjutan)

11.	Mirisetin (ligan uji 10)	<chem>[H]OC1=C([H])C(O[H])=C2C(=O)C(O[H])=C(OC2=C1[H])C1=C([H])C(O[H])=C(O[H])C(O[H])=C1[H]</chem>
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Lampiran 7. SwissADME pada ligan asli dan ligan uji



Ligan asli (donepezil)



Bilobalida

(lanjutan)

Molecule 1

SMILES
O=C1O[C@@H]2[C@@H]([C@@H]1C)(C)C@H]3[C@@H]4(C2)[C@@H](OC(=O)C)C@H]2O)C(C)C

Physicochemical Properties	
Formula	C20H24O9
Molecular weight	408.40 g/mol
Num. heavy atoms	29
Num. arom. heavy atoms	0
Fraction Csp3	0.85
Num. rotatable bonds	1
Num. H-bond acceptors	9
Num. H-bond donors	2
Molar Refractivity	92.13
TPSA	128.59 Å²
Lipophilicity	
Log P _{0/w} (LOGP)	1.12
Log P _{0/w} (XLOGP3)	0.59
Log P _{0/w} (WLOGP)	-0.34
Log P _{0/w} (MLOGP)	0.83
Log P _{0/w} (SILICOS-IT)	0.81
Consensus Log P _{0/w}	0.60

Water Solubility	
Log S (ESOL)	-2.68
Solubility	6.50e-01 mg/ml ; 2.10e-03 mol/l
Class	Soluble
Log S (Ali)	-2.86
Solubility	5.59e-01 mg/ml ; 1.37e-03 mol/l
Class	Soluble
Log S (SILICOS-IT)	-1.50
Solubility	1.06e+01 mg/ml ; 2.59e-02 mol/l
Class	Soluble

Pharmacokinetics	
GI absorption	High
BBB permeant	No
P-gp substrate	Yes
CYP1A2 inhibitor	No
CYP2C19 inhibitor	No
CYP2C9 inhibitor	No
CYP2D6 inhibitor	No
CYP3A4 inhibitor	No
Log K _p (skin permeation)	-8.37 cm/s

Druglikeness	
Lipinski	Yes; 0 violation
Glaxo	Yes
Veber	Yes
Egan	Yes
Muegge	Yes
Bioavailability Score	0.55

Medicinal Chemistry	
PAINS	0 alert
Brenk	1 alert: more_than_2_esters
Leadlikeness	No; 1 violation: MW>350
Synthetic accessibility	6.28

Ginkgolida A

Molecule 1

SMILES
O=C1O[C@@H]2[C@@H]([C@@H]1C)(C)C@H]3[C@@H]4(C2)[C@@H](OC(=O)C)C@H]2O)C(C)C

Physicochemical Properties	
Formula	C20H24O10
Molecular weight	424.40 g/mol
Num. heavy atoms	30
Num. arom. heavy atoms	0
Fraction Csp3	0.85
Num. rotatable bonds	1
Num. H-bond acceptors	10
Num. H-bond donors	3
Molar Refractivity	93.29
TPSA	148.02 Å²
Lipophilicity	
Log P _{0/w} (LOGP)	1.59
Log P _{0/w} (XLOGP3)	-0.38
Log P _{0/w} (WLOGP)	-1.37
Log P _{0/w} (MLOGP)	0.06
Log P _{0/w} (SILICOS-IT)	-0.97
Consensus Log P _{0/w}	-0.93

Water Solubility	
Log S (ESOL)	-2.17
Solubility	2.90e+00 mg/ml ; 6.83e-03 mol/l
Class	Soluble
Log S (Ali)	-2.28
Solubility	2.22e+00 mg/ml ; 5.22e-03 mol/l
Class	Soluble
Log S (SILICOS-IT)	-0.77
Solubility	7.27e+01 mg/ml ; 1.71e-01 mol/l
Class	Soluble

Pharmacokinetics	
GI absorption	Low
BBB permeant	No
P-gp substrate	Yes
CYP1A2 inhibitor	No
CYP2C19 inhibitor	No
CYP2C9 inhibitor	No
CYP2D6 inhibitor	No
CYP3A4 inhibitor	No
Log K _p (skin permeation)	-9.16 cm/s

Druglikeness	
Lipinski	Yes; 0 violation
Glaxo	No; 1 violation: WLOGP<-0.4
Veber	No; 1 violation: TPSA>140
Egan	No; 1 violation: TPSA>131.6
Muegge	Yes
Bioavailability Score	0.55

Medicinal Chemistry	
PAINS	0 alert
Brenk	1 alert: more_than_2_esters
Leadlikeness	No; 1 violation: MW>350
Synthetic accessibility	6.35

Ginkgolida B

(lanjutan)

Molecule 1

SMILES: Oc1cc(ccc1)c1cc2cc(O)c(O)c2cc(=O)c1O

Physicochemical Properties	
Formula	C ₁₅ H ₁₀ O ₆
Molecular weight	286.24 g/mol
Num. heavy atoms	21
Num. arom. heavy atoms	18
Fraction Csp ³	0.00
Num. rotatable bonds	1
Num. H-bond acceptors	6
Num. H-bond donors	4
Molar Refractivity	78.01
TPSA	111.13 Å ²
Lipophilicity	
Log P _{ov} (LOGP)	1.70
Log P _{ov} (KLOGP3)	1.90
Log P _{ov} (WLOGP)	2.28
Log P _{ov} (MLOGP)	-0.03
Log P _{ov} (SILICOS-IT)	2.03
Consensus Log P _{ov}	1.58

Water Solubility	
Log S (ESOL)	-3.31
Solubility	1.40e-01 mg/ml; 4.90e-04 mol/l
Class	Soluble
Log S (Ali)	-3.36
Solubility	3.98e-02 mg/ml; 1.39e-04 mol/l
Class	Soluble
Log S (SILICOS-IT)	-3.82
Solubility	4.29e-02 mg/ml; 1.50e-04 mol/l
Class	Soluble
Pharmacokinetics	
GI absorption	High
BBB permeant	No
P-gp substrate	No
CYP1A2 inhibitor	Yes
CYP2C19 inhibitor	No
CYP2C9 inhibitor	No
CYP2D6 inhibitor	Yes
CYP3A4 inhibitor	Yes
Log K _p (skin permeation)	-6.70 cm/s
Druglikeness	
Lipinski	Yes; 0 violation
Ghose	Yes
Veber	Yes
Egan	Yes
Muegge	Yes
Bioavailability Score	0.55
Medicinal Chemistry	
RAINS	0 alert
Break	0 alert
Leadlikeness	Yes
Synthetic accessibility	3.14

Kaempferol

Molecule 1

SMILES: Oc1cc(O)c2c(c1)oc(c1c2=O)oc1ccc(c1c1)O

Physicochemical Properties	
Formula	C ₁₅ H ₁₀ O ₇
Molecular weight	302.24 g/mol
Num. heavy atoms	22
Num. arom. heavy atoms	16
Fraction Csp ³	0.00
Num. rotatable bonds	1
Num. H-bond acceptors	7
Num. H-bond donors	5
Molar Refractivity	78.04
TPSA	131.36 Å ²
Lipophilicity	
Log P _{ov} (LOGP)	1.63
Log P _{ov} (KLOGP3)	1.54
Log P _{ov} (WLOGP)	1.99
Log P _{ov} (MLOGP)	-0.56
Log P _{ov} (SILICOS-IT)	1.54
Consensus Log P _{ov}	1.23

Water Solubility	
Log S (ESOL)	-3.10
Solubility	2.11e-01 mg/ml; 6.98e-04 mol/l
Class	Soluble
Log S (Ali)	-3.91
Solubility	3.74e-02 mg/ml; 1.24e-04 mol/l
Class	Soluble
Log S (SILICOS-IT)	-3.24
Solubility	1.70e-01 mg/ml; 5.73e-04 mol/l
Class	Soluble
Pharmacokinetics	
GI absorption	High
BBB permeant	No
P-gp substrate	No
CYP1A2 inhibitor	Yes
CYP2C19 inhibitor	No
CYP2C9 inhibitor	No
CYP2D6 inhibitor	Yes
CYP3A4 inhibitor	Yes
Log K _p (skin permeation)	-7.05 cm/s
Druglikeness	
Lipinski	Yes; 0 violation
Ghose	Yes
Veber	Yes
Egan	Yes
Muegge	Yes
Bioavailability Score	0.55
Medicinal Chemistry	
RAINS	1 alert: catechol _{LA}
Break	1 alert: catechol
Leadlikeness	Yes
Synthetic accessibility	3.23

Kuersetin

(lanjutan)

Molecule 1

SMILES: CCCCC/C=C/C(C)CCCCOC(=O)C(=O)O

Physicochemical Properties

Formula	C22H34O3
Molecular weight	346.50 g/mol
Num. heavy atoms	25
Num. arom. heavy atoms	6
Fraction Csp3	0.59
Num. rotatable bonds	14
Num. H-bond acceptors	3
Num. H-bond donors	2
Molar Refractivity	107.21
TPSA	57.53 Å²

Lipophilicity

Log P _{ow} (LOGP)	3.78
Log P _{ow} (XLOGP3)	8.55
Log P _{ow} (WLOGP)	6.50
Log P _{ow} (MLOGP)	4.85
Log P _{ow} (SILICOS-IT)	6.55
Consensus Log P _{ow}	6.05

Water Solubility

Log S (ESOL)	-6.63
Solubility	8.15e-05 mg/ml ; 2.35e-07 mol/l
Class	Poorly soluble
Log S (Alii)	-6.63
Solubility	8.09e-03 mg/ml ; 2.34e-10 mol/l
Class	Poorly soluble
Log S (SILICOS-IT)	-0.49
Solubility	1.11e-04 mg/ml ; 3.21e-07 mol/l
Class	Poorly soluble

Pharmacokinetics

GI absorption	High
BBB permeant	No
P-gp substrate	No
CYP1A2 inhibitor	Yes
CYP2C19 inhibitor	Yes
CYP2C9 inhibitor	Yes
CYP2D6 inhibitor	No
CYP3A4 inhibitor	No
Log K _p (skin permeation)	-2.54 cm/s

Druglikeness

Lipinski	Yes; 1 violation: MLOGP>4.15
Chose	No; 1 violation: WLOGP>5.5
Veber	No; 1 violation: Rotors>10
Egan	No; 1 violation: WLOGP>5.03
Muegge	No; 1 violation: XLOGP3>5
Bioavailability Score	0.85

Medicinal Chemistry

PAINS	0 alert
Brenk	1 alert: isolated_aliena
Leadlikeness	No; 2 violations: Rotors>7, XLOGP3>3.5
Synthetic accessibility	3.12

Asam ginkgolik

Molecule 1

SMILES: O=C1OC(=O)C2=CC(=O)C(=O)C=C2O[C@@H]1O[C@@H]([C@@H]([C@@H]([C@H]1O)O)O)O

Physicochemical Properties

Formula	C27H30O16
Molecular weight	610.52 g/mol
Num. heavy atoms	43
Num. arom. heavy atoms	16
Fraction Csp3	0.44
Num. rotatable bonds	6
Num. H-bond acceptors	16
Num. H-bond donors	10
Molar Refractivity	141.38
TPSA	209.43 Å²

Lipophilicity

Log P _{ow} (LOGP)	0.46
Log P _{ow} (XLOGP3)	-0.33
Log P _{ow} (WLOGP)	-1.69
Log P _{ow} (MLOGP)	-3.89
Log P _{ow} (SILICOS-IT)	-2.11
Consensus Log P _{ow}	-1.51

Water Solubility

Log S (ESOL)	-3.30
Solubility	3.08e-01 mg/ml ; 5.05e-04 mol/l
Class	Soluble
Log S (Alii)	-4.87
Solubility	8.30e-03 mg/ml ; 1.30e-05 mol/l
Class	Moderately soluble
Log S (SILICOS-IT)	-0.29
Solubility	3.15e+02 mg/ml ; 5.15e-01 mol/l
Class	Soluble

Pharmacokinetics

GI absorption	Low
BBB permeant	No
P-gp substrate	Yes
CYP1A2 inhibitor	No
CYP2C19 inhibitor	No
CYP2C9 inhibitor	No
CYP2D6 inhibitor	No
CYP3A4 inhibitor	No
Log K _p (skin permeation)	-10.26 cm/s

Druglikeness

Lipinski	No; 3 violations: MW>500, NoC>10, H-bond>5
Chose	No; 4 violations: MW>480, WLOGP<0.4, MR>130, #atoms>70
Veber	No; 1 violation: TPSA>140
Egan	No; 1 violation: TPSA>131.0
Muegge	No; 4 violations: MW>600, TPSA>160, H-acc>10, H-don>5
Bioavailability Score	0.17

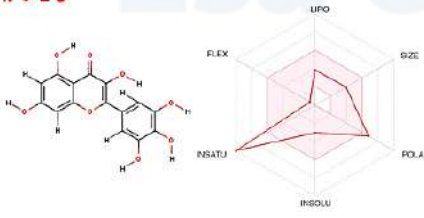
Medicinal Chemistry

PAINS	1 alert: catechol_A
Brenk	1 alert: catechol
Leadlikeness	No; 1 violation: MW>350
Synthetic accessibility	8.52

Rutin

(lanjutan)

Molecule 1



SMILES: Oc1cc(O)c2c(c1)oc(c2=O)c1cc(O)c(c1)O

Physicochemical Properties	
Formula	C15H10O6
Molecular weight	318.24 g/mol
Num. heavy atoms	23
Num. arom. heavy atoms	16
Fraction Csp3	0.00
Num. rotatable bonds	1
Num. H-bond acceptors	8
Num. H-bond donors	5
Molar Refractivity	80.05
TPSA	151.59 Å²

Lipophilicity	
Log P _{ow} (LOGP)	1.08
Log P _{ow} (XLOGP3)	1.18
Log P _{ow} (WLOGP)	1.69
Log P _{ow} (MLDGP)	-1.08
Log P _{ow} (SILICOS-IT)	1.06
Consensus Log P _{ow}	0.79

Water Solubility	
Log S (ESOL)	-3.01
Solubility	3.14e-01 mg/ml ; 9.88e-04 mol/l
Class	Soluble
Log S (Ali)	-3.96
Solubility	3.50e-02 mg/ml ; 1.10e-04 mol/l
Class	Soluble
Log S (SILICOS-IT)	-2.88
Solubility	6.80e-01 mg/ml ; 2.19e-03 mol/l
Class	Soluble

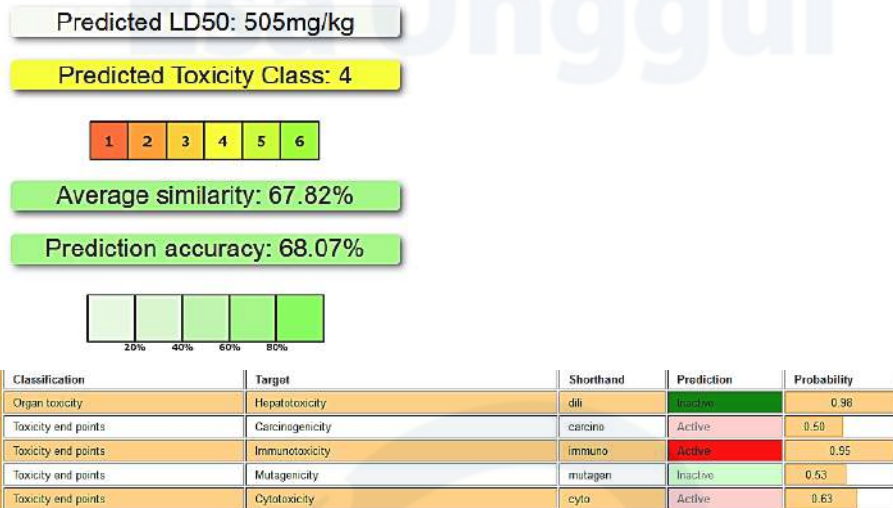
Pharmacokinetics	
GI absorption	Low
BBB permeant	No
P-gp substrate	No
CYP1A2 inhibitor	Yes
CYP2C19 inhibitor	No
CYP2C9 inhibitor	No
CYP2D6 inhibitor	No
CYP3A4 inhibitor	Yes
Log K _o (skin permeation)	-7.40 cm/s

Druglikeness	
Lipinski	Yes; 1 violation: NH ₂ OH>5
Ghose	Yes
Veber	No; 1 violation: TPSA>140
Egan	No; 1 violation: TPSA>131.6
Muegge	No; 2 violations: TPSA>150, H-don>5
Bioavailability Score	0.55

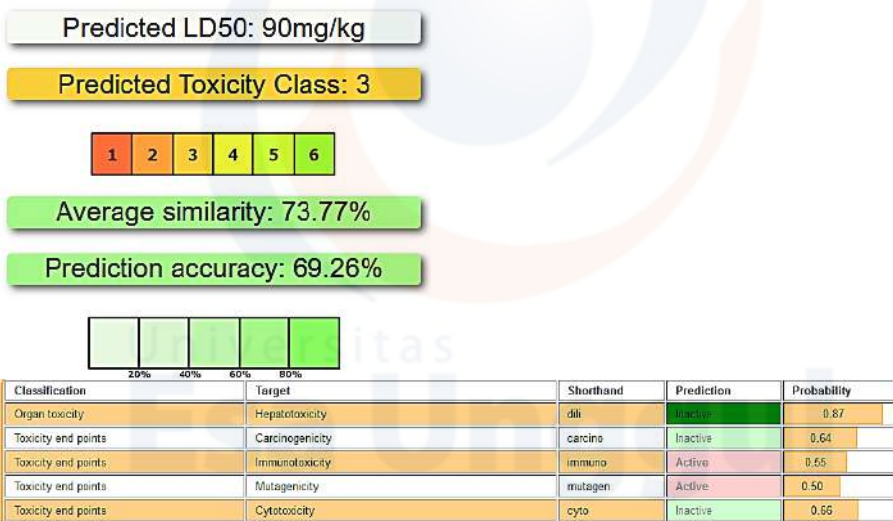
Medicinal Chemistry	
PAINS	1 alert: catechol_A
Brenk	1 alert: catechol
Leadlikeness	Yes
Synthetic accessibility	3.27

Mirisetin

Lampiran 8. Prediksi toksisitas pada ligan asli dan ligan uji



Donepezil

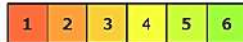


Bilobalida

(lanjutan)

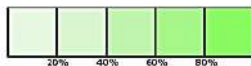
Predicted LD50: 500mg/kg

Predicted Toxicity Class: 4



Average similarity: 76.64%

Prediction accuracy: 69.26%

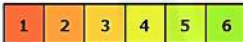


Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dli	Inactive	0.83
Toxicity end points	Carcinogenicity	carcino	Inactive	0.65
Toxicity end points	Immunotoxicity	immuno	Active	0.96
Toxicity end points	Mutagenicity	mutagen	Inactive	0.53
Toxicity end points	Cytotoxicity	cyto	Inactive	0.62

Ginkgolida A

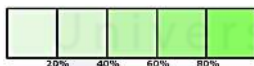
Predicted LD50: 500mg/kg

Predicted Toxicity Class: 4



Average similarity: 76.64%

Prediction accuracy: 69.26%



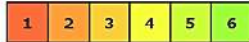
Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dli	Inactive	0.80
Toxicity end points	Carcinogenicity	carcino	Inactive	0.60
Toxicity end points	Immunotoxicity	immuno	Active	0.94
Toxicity end points	Mutagenicity	mutagen	Inactive	0.56
Toxicity end points	Cytotoxicity	cyto	Inactive	0.64

Ginkgolida B

(lanjutan)

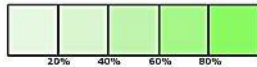
Predicted LD50: 500mg/kg

Predicted Toxicity Class: 4



Average similarity: 77.2%

Prediction accuracy: 69.26%

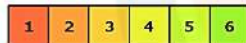


Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dili	Inactive	0.82
Toxicity end points	Carcinogenicity	carcino	Inactive	0.55
Toxicity end points	Immunotoxicity	immuno	Active	0.77
Toxicity end points	Mutagenicity	mutagen	Inactive	0.63
Toxicity end points	Cytotoxicity	cyto	Inactive	0.65

Ginkgolida C

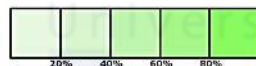
Predicted LD50: 5000mg/kg

Predicted Toxicity Class: 5



Average similarity: 87.48%

Prediction accuracy: 70.97%



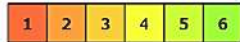
Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dili	Inactive	0.72
Toxicity end points	Carcinogenicity	carcino	Inactive	0.68
Toxicity end points	Immunotoxicity	immuno	Active	0.58
Toxicity end points	Mutagenicity	mutagen	Inactive	0.94
Toxicity end points	Cytotoxicity	cyto	Inactive	0.96

Isorhamnetin

(lanjutan)

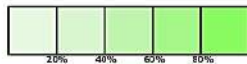
Predicted LD50: 3919mg/kg

Predicted Toxicity Class: 5



Average similarity: 82.46%

Prediction accuracy: 70.97%

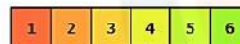


Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dili	Inactive	0.68
Toxicity end points	Carcinogenicity	carcino	Inactive	0.72
Toxicity end points	Immunotoxicity	immuno	Inactive	0.96
Toxicity end points	Mutagenicity	mutagen	Inactive	0.52
Toxicity end points	Cytotoxicity	cyto	Inactive	0.98

Kaempferol

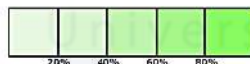
Predicted LD50: 159mg/kg

Predicted Toxicity Class: 3



Average similarity: 100%

Prediction accuracy: 100%



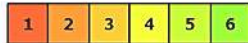
Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dili	Inactive	0.69
Toxicity end points	Carcinogenicity	carcino	Active	0.68
Toxicity end points	Immunotoxicity	immuno	Inactive	0.87
Toxicity end points	Mutagenicity	mutagen	Active	0.51
Toxicity end points	Cytotoxicity	cyto	Inactive	0.99

Kuersetin

(lanjutan)

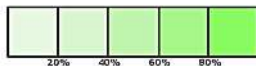
Predicted LD50: 1000mg/kg

Predicted Toxicity Class: 4



Average similarity: 70.11%

Prediction accuracy: 69.26%

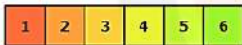


Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dili	Inactive	0.77
Toxicity end points	Carcinogenicity	carcino	Inactive	0.72
Toxicity end points	Immunotoxicity	immuno	Active	0.60
Toxicity end points	Mutagenicity	mutagen	Inactive	0.59
Toxicity end points	Cytotoxicity	cyto	Inactive	0.75

Asam ginkgolik

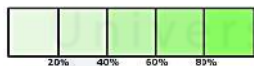
Predicted LD50: 5000mg/kg

Predicted Toxicity Class: 5



Average similarity: 100%

Prediction accuracy: 100%



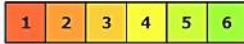
Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dili	Inactive	0.80
Toxicity end points	Carcinogenicity	carcino	Inactive	0.91
Toxicity end points	Immunotoxicity	immuno	Active	0.96
Toxicity end points	Mutagenicity	mutagen	Inactive	0.88
Toxicity end points	Cytotoxicity	cyto	Inactive	0.64

Rutin

(lanjutan)

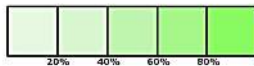
Predicted LD50: 159mg/kg

Predicted Toxicity Class: 3



Average similarity: 100%

Prediction accuracy: 100%



Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	hli	Inactive	0.69
Toxicity end points	Carcinogenicity	carcino	Active	0.68
Toxicity end points	Immunotoxicity	immuno	Inactive	0.86
Toxicity end points	Mutagenicity	mutagen	Active	0.51
Toxicity end points	Cytotoxicity	cyto	Inactive	0.99

Mirisetin