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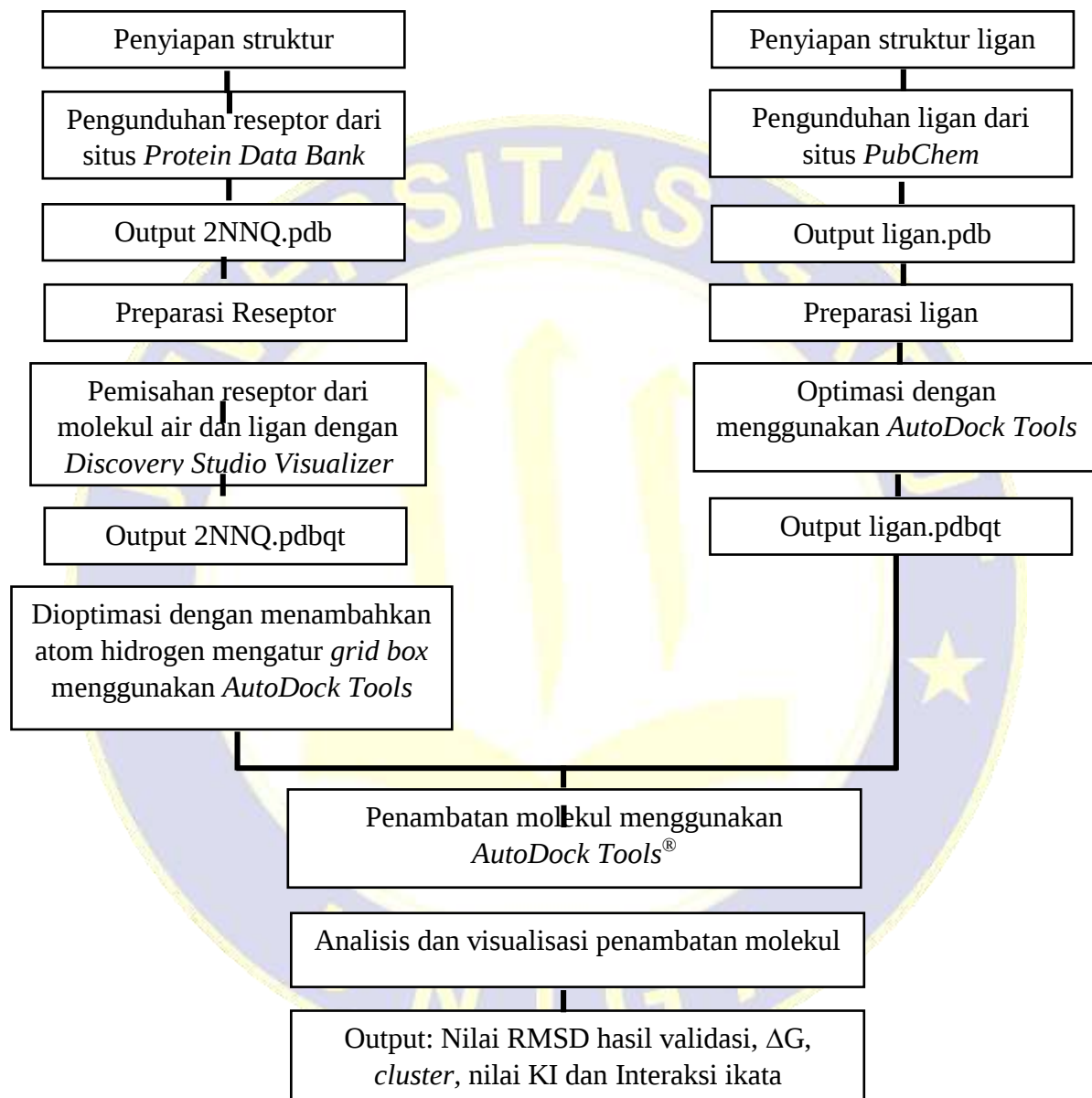
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LAMPIRAN 1

ALUR PENELITIAN PENAMBATAN MOLEKUL



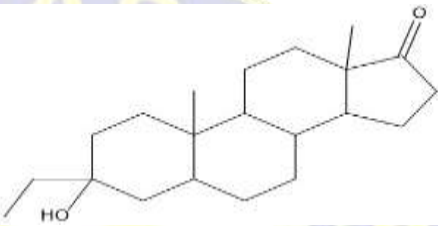
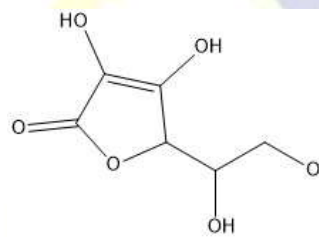
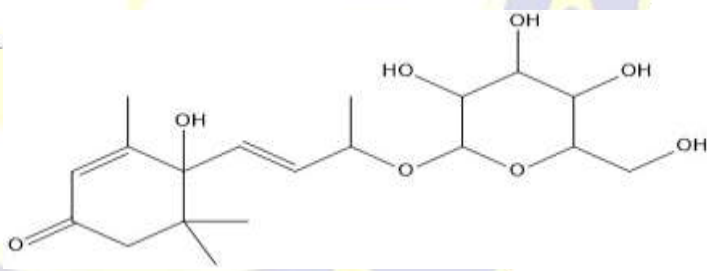
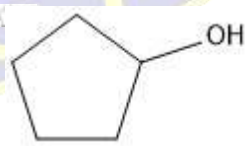
Gambar III.1 Alur penelitian penambatan molekul reseptor 2NNQ

LAMPIRAN 2

SENYAWA DAUN KATUK (*Sauropus androgynus* L. Merr.)

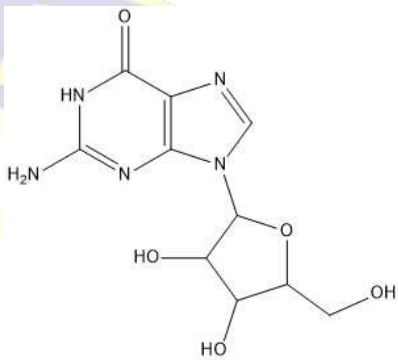
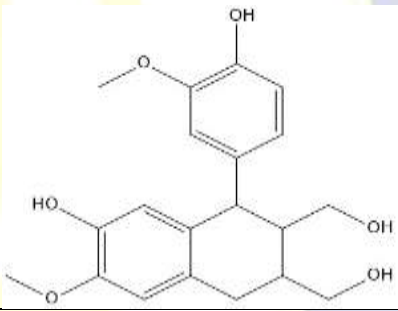
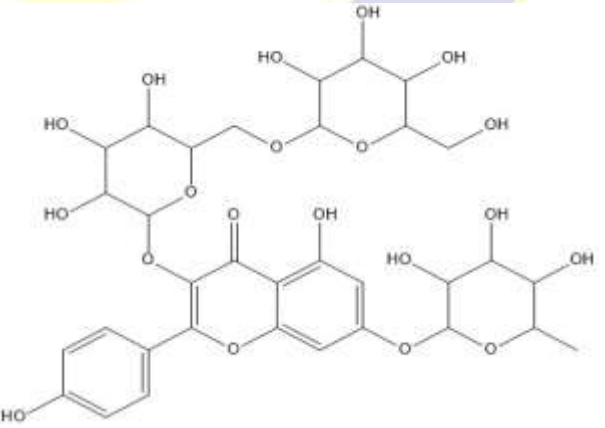
Tabel V.1

Senyawa Daun katuk (*Sauropus androgynus* L. Merr.)

No	Nama Senyawa	Struktur 2D
1	<i>Androstan-17-one-3-ethyl-3-hydroxy-5 alpha</i>	 The structure shows a steroid nucleus with a ketone group at C-17, an ethyl group and a hydroxyl group at C-3, and a methyl group at C-10.
2	<i>Ascorbic acid</i>	 The structure shows a five-membered lactone ring with two hydroxyl groups at C-2 and C-3, and a side chain with two hydroxyl groups at C-4 and C-5.
3	<i>Chorcoinoside C</i>	 The structure shows a complex molecule with a cyclohexenone ring, a hydroxyl group, and a side chain with multiple hydroxyl groups and an ether linkage.
4	<i>Cyclopentanol</i>	 The structure shows a five-membered carbon ring with a hydroxyl group attached to one of the carbons.

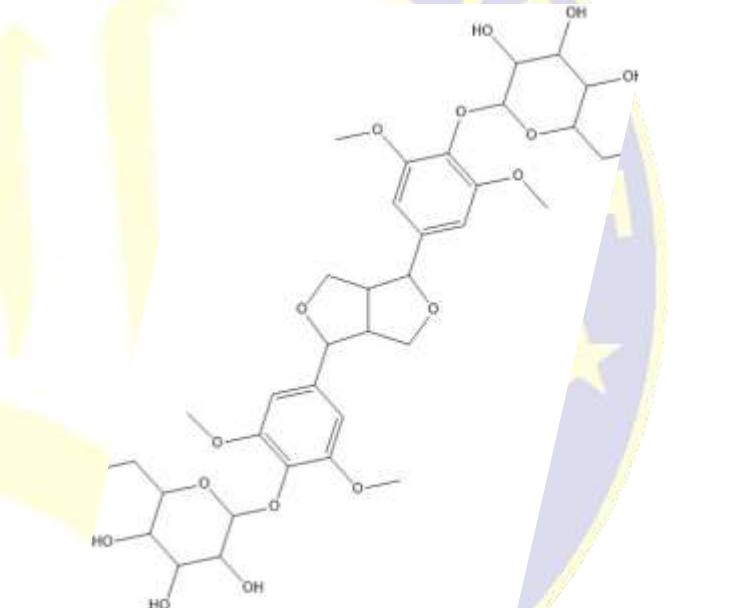
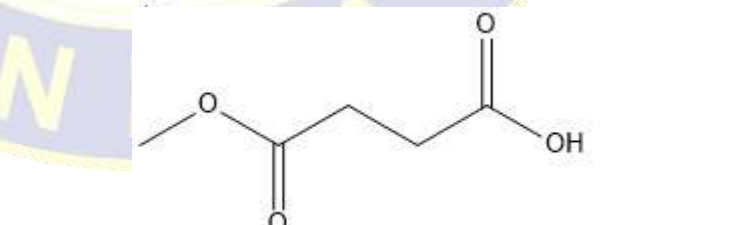
LAMPIRAN 2 (LANJUTAN)

Tabel V.1
Lanjutan

No	Nama Senyawa	Struktur 2D
5	<i>Guanosine</i>	
6	<i>Isolariciresinol</i>	
7	<i>Kaempferol 3-gentiobioside-7-rhamnoside</i>	

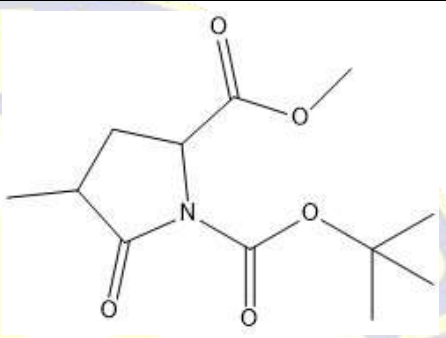
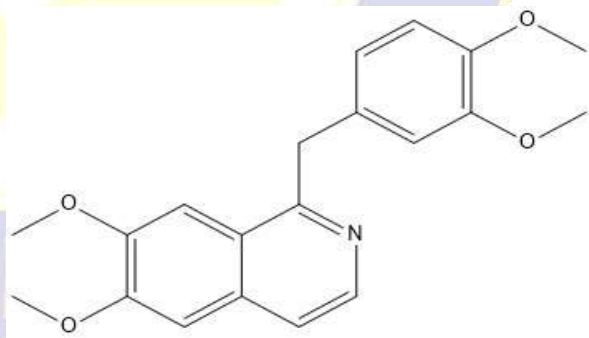
LAMPIRAN 2 (LANJUTAN)

Tabel V.1
Lanjutan

No	Nama Senyawa	Struktur 2D
8	<i>9-eicosyne</i>	
9	<i>Liriodendrin</i>	
11	<i>Monomethyl succinate</i>	

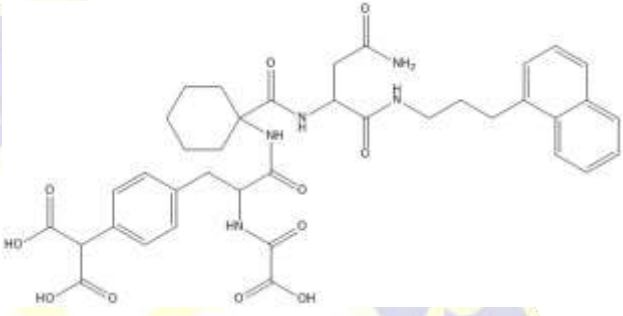
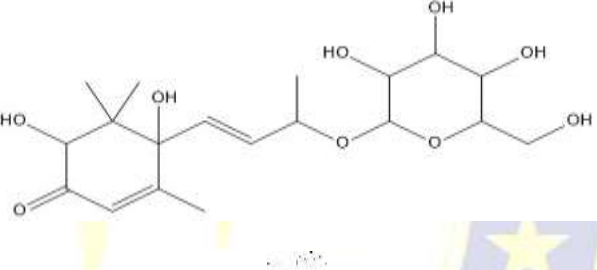
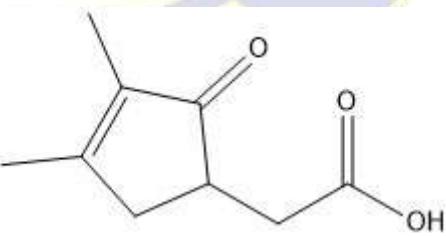
LAMPIRAN 2 (LANJUTAN)

Tabel V.1
Lanjutan

No	Nama Senyawa	Struktur 2D
10	<i>Methylpyroglutamate</i>	 The structure shows a five-membered pyrrolidine ring with a carbonyl group at the 2-position. The nitrogen atom is part of an amide linkage to a side chain consisting of a carbonyl group, a methoxy group, and a tert-butyl group.
12	<i>Octadecanoic acid</i>	 The structure represents a long-chain saturated fatty acid with 18 carbon atoms in total, including the carboxylic acid group at one end.
13	<i>Papaverine</i>	 The structure is a complex heterocyclic compound featuring a pyridine ring fused to a benzene ring, which is further substituted with a methoxy group and a side chain containing another benzene ring with two methoxy groups.

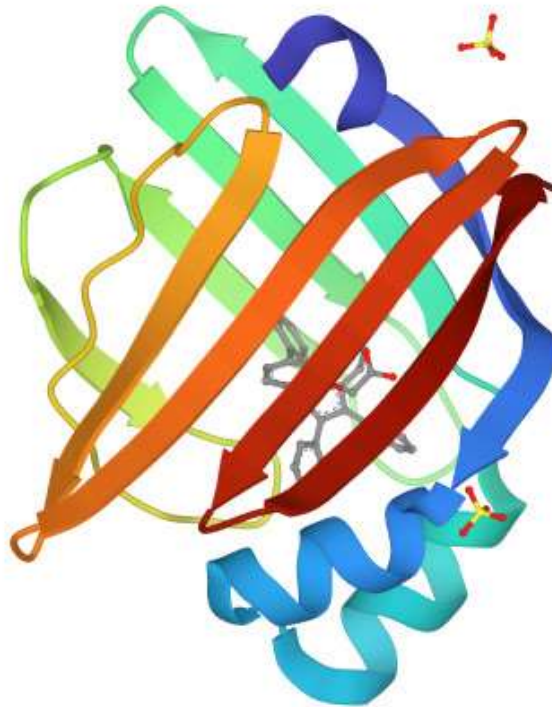
LAMPIRAN 2 (LANJUTAN)

Tabel V.1
Lanjutan

No	Nama Senyawa	Struktur 2D
14	<i>Phenyl malonic acid</i>	 The structure shows a central benzene ring substituted with a malonic acid group (-CH2-COOH) and a phenyl group (-C6H5).
15	<i>Sauroposide</i>	 The structure shows a complex molecule with a central ring system, multiple hydroxyl groups, and a long chain with an ester linkage.
16	<i>3,4-dimethyl-2-oxocyclopent-3-enylacetic acid</i>	 The structure shows a five-membered ring with a ketone group (=O) at position 2, two methyl groups at positions 3 and 4, and an acetic acid group (-CH2COOH) at position 1.
17	<i>11,14,17-eicosatrienoic acid methyl ester</i>	 The structure shows a long chain with three double bonds at positions 11, 14, and 17, and a methyl ester group at the end.

LAMPIRAN 3

STRUKTUR 3D RESEPTOR



Gambar III.2 Struktur 3D reseptor *Human Adipocyte Fatty Acid Binding Protein* (aFABP)

LAMPIRAN 4

LIGAN ALAMI

((2'-(5-ethyl-3,4-diphenyl-1H-pyrazol-1-yl)-3-biphenyl)oxy)acetic acid) dari reseptor adipocyte Fatty Acid Binding Protein (aFABP)



Gambar IV.1 Ligan alami aFABP

LAMPIRAN 5

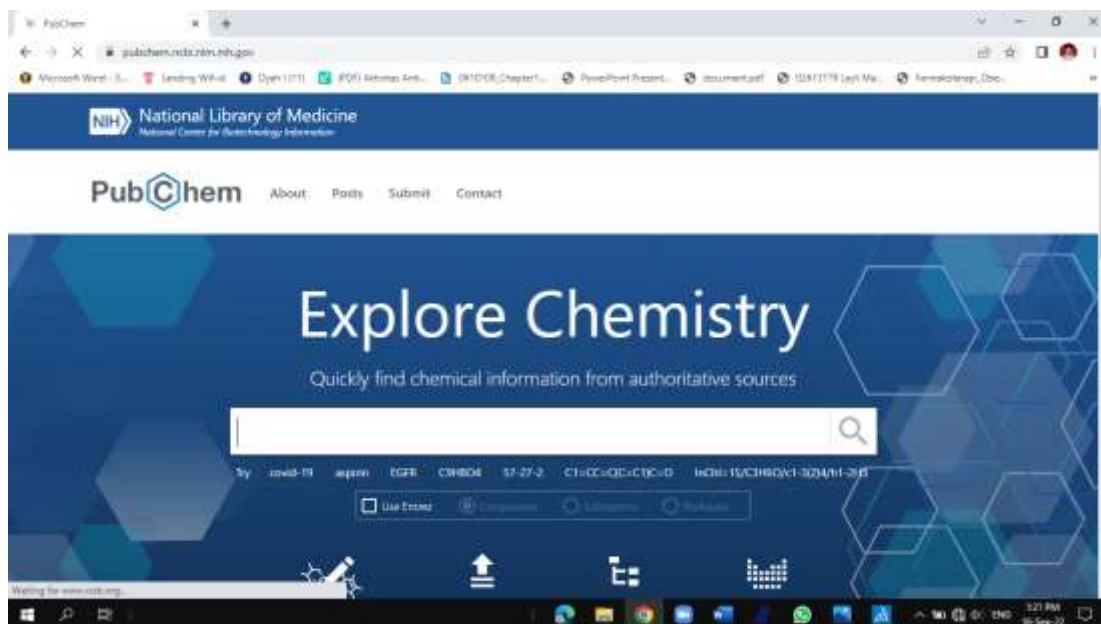
SITUS *PROTEIN DATA BANK*



Gambar IV.2 Situs Online Protein Data Bank

LAMPIRAN 6

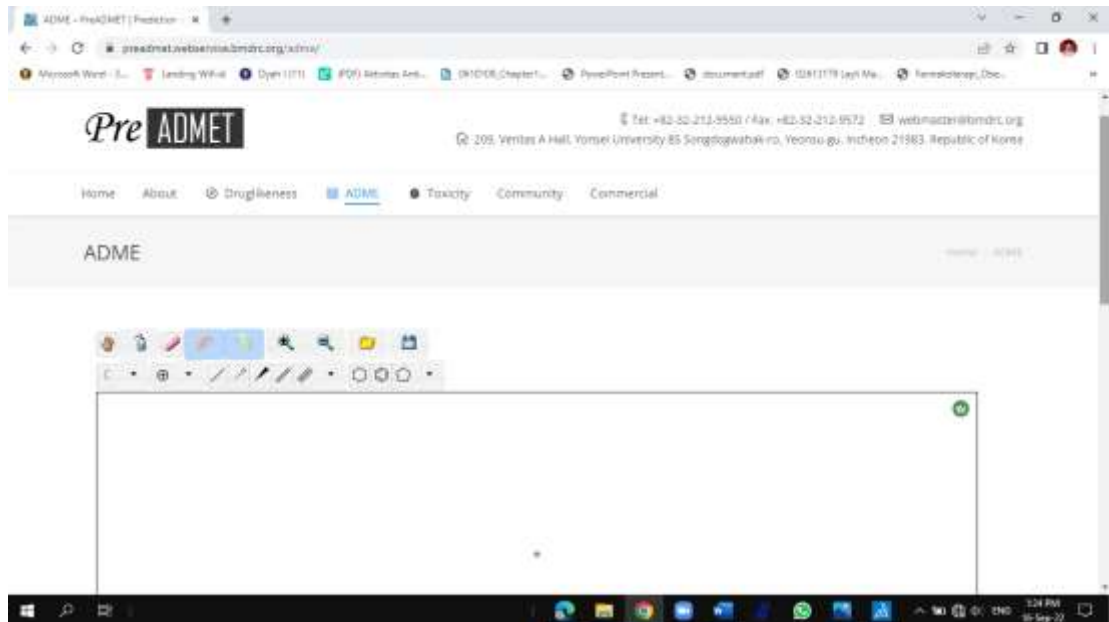
SITUS *PUBCHEM*



Gambar IV.3 Situs Online PubChem

LAMPIRAN 7

SITUS *Pre-ADMET*



Gambar IV.4 Situs Online *Pre-ADMET*

LAMPIRAN 8

SITUS *LIPINSKI'S RULE OF FIVE*

The screenshot shows a web browser window displaying the 'Lipinski Rule of Five' application. The page header includes the logo of the Supercomputing Facility for Bioinformatics & Computational Biology, IIT Delhi, and the text 'ZSCER'. The main content area is titled 'Lipinski Rule of Five' and explains the rule's purpose: to distinguish between drug-like and non-drug-like molecules based on five criteria:

- Molecular mass less than 500 Daltons
- High lipophilicity (expressed as LogP less than 5)
- Less than 5 hydrogen bond donors
- Less than 10 hydrogen bond acceptors
- Molar refractivity should be between 40-130

Below the list, a paragraph states: 'These filters help in early preclinical development and could help avoid costly late-stage preclinical and clinical failures. To draw a chemical structure [click here](#) and follow the instructions given.'

The interface includes three steps for user input:

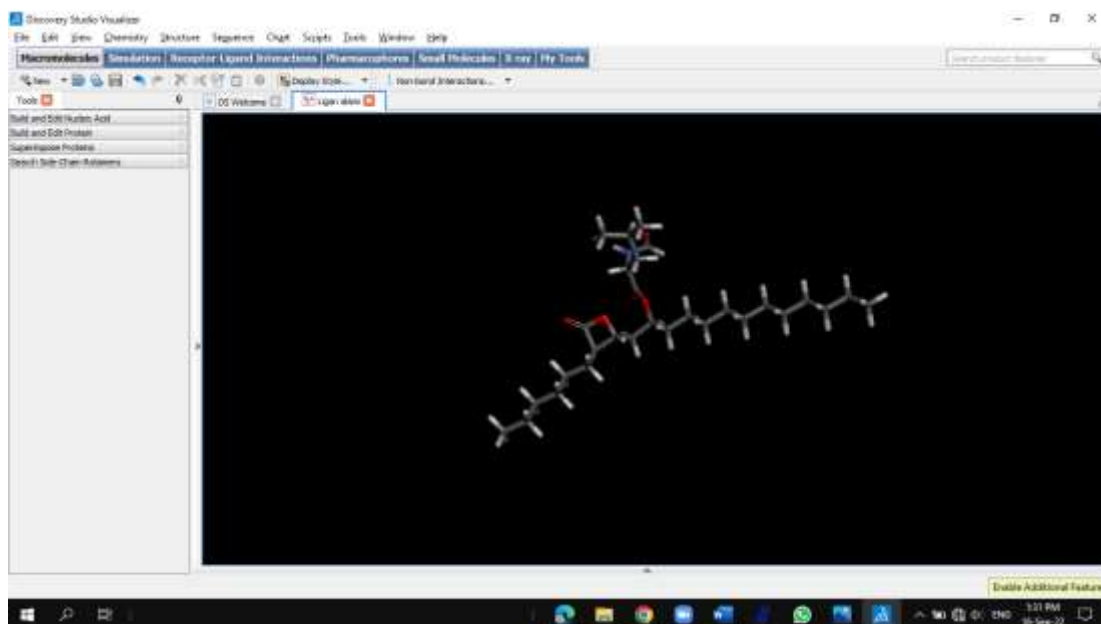
- Step 1: Input Drug File.** A text input field labeled 'Input PDB file' with a 'Choose File' button next to it.
- Step 2: Input pH Value.** A text input field labeled 'pH Value:' with a value of '7' entered and a note '(Value ranges from 0.0 to 14.0)'.
- Step 3: Click on 'Submit' to submit your job.** Two buttons labeled 'Submit' and 'Reset' are provided.

At the bottom, there is a link 'How to Use the Tool'.

Gambar IV.5 Situs Online *Lipinski's Rule Of Five*

LAMPIRAN 9

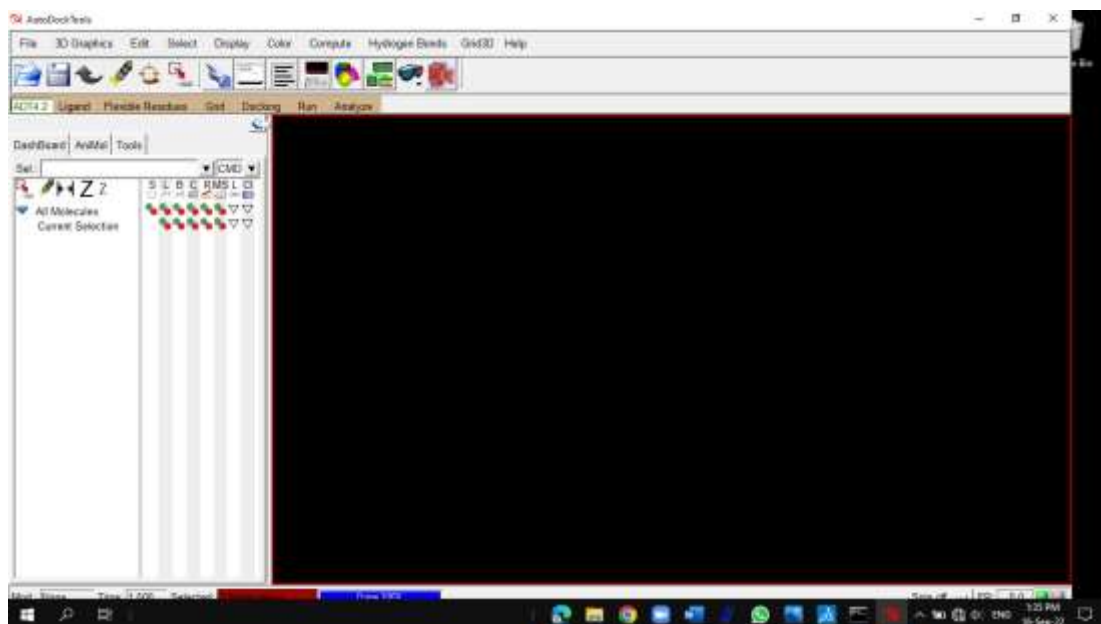
PERANGKAT LUNAK *DISCOVERY STUDIO VISUALIZER*



Gambar IV.6 Perangkat lunak *Discovery Studio Visualizer*

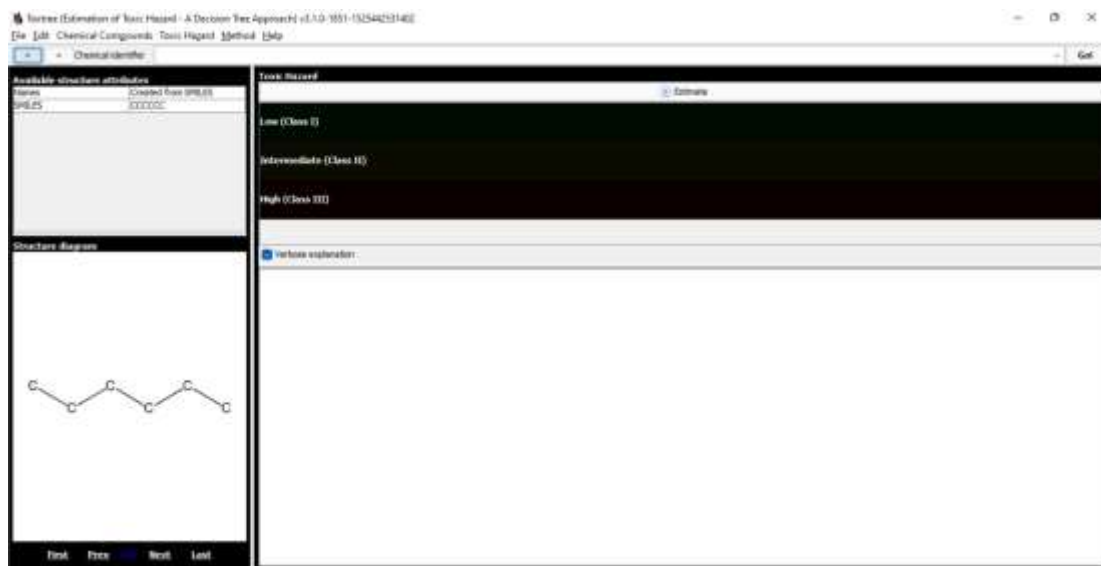
LAMPIRAN 10

PERANGKAT LUNAK *AUTODOCK TOOLS*



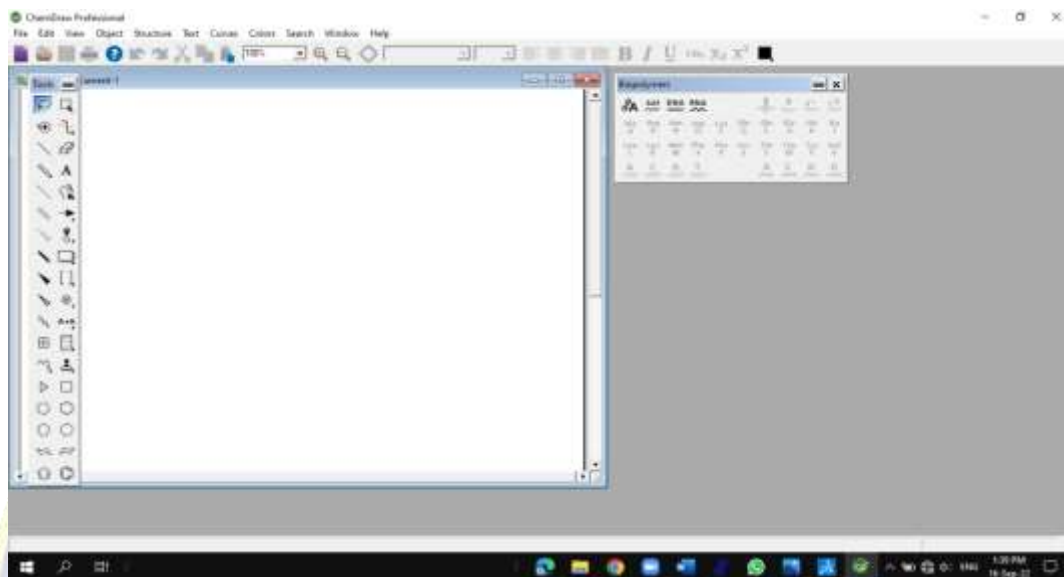
Gambar IV.7 Perangkat lunak *AutoDock Tools*

LAMPIRAN 11

PERANGKAT LUNAK *TOXTREE*Gambar IV.8 Perangkat lunak *Toxtree*

LAMPIRAN 12

PERANGKAT LUNAK *CHEM DRAW*



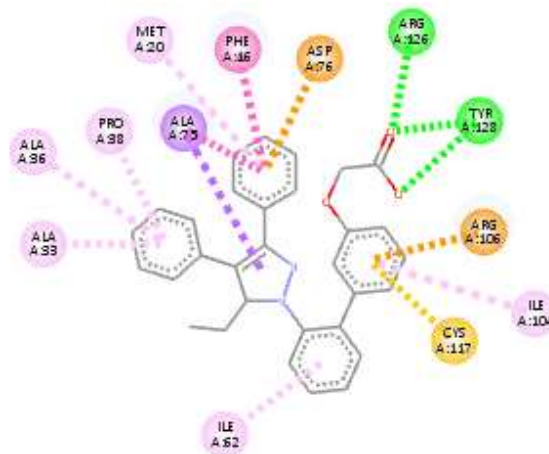
Gambar IV.9 Perangkat lunak *Chem Draw*

LAMPIRAN 13

HASIL VALIDASI



Gambar V.1 Visualisasi tumpang tindih ligan alami dengan ligan hasil *re-docking* dari reseptor *human adipocyte fatty acid binding protein* (aFABP)



Gambar V.2 Visualisasi interaksi residu asam amino ligan alami dengan reseptor *adipocyte Fatty Acid Binding Protein* (aFABP)

LAMPIRAN 13

(LANJUTAN)

Tabel V.2
Grid Box, Nilai RMSD, Nilai ΔG (Energi bebas)

Reseptor	Grid Box		RMSD	ΔG (Energi Bebas Gibbs)	Konstanta Inhibisi (Ki)
	Center	Size			
<i>Human Adipocyte Fatty Acid Binding Protein (aFABP)</i> Kode 2NNQ	X: 4.687 Y: 7.609 Z: 18.565	X : 24 Y : 26 Z: 24	1.8 Å	-7.17	5.51 uM

LAMPIRAN 14

HASIL PENAMBATAN MOLEKUL

Hasil penambatan molekul senyawa aktif dari daun katuk (*Sauropus androgynus* L Merr) dan identifikasi interaksi hidrogen menggunakan *Discovery Studio Visualizer* terhadap reseptor target *Human Adipocyte Fatty Acid Binding Protein* (aFABP)

Tabel V.3
Hasil Penambatan Molekul

No.	Ligan	ΔG (kkal/mol)	KI (nM)	Residu asam amino yang berikatan	
				Hidrofobik	Hidrogen
1.	<i>Androstan-17-one-3-ethyl-3-hydroxy-5 alpha</i>	-8,48	613,32	-	ARG126A TYR128A ASP76A
2.	<i>Papaverine</i>	-7,16	5,620	GLU72A ARG78A ASP76A MET20A ALA33A HIS93A PHE57A	ALA75A GLN95A
3.	<i>Chorcoinoside C</i>	-6,43	19,41	PHE16A PHE57A ALA33A	ARG126A ARG106A ARG78A TYR128A ASP76A
4.	<i>Isolariciresinol</i>	-6,42	19,680	TYR19A ALA75A CYS117A VAL115A	ARG126A ASP76A TYR128A GLN95A

LAMPIRAN 14

(LANJUTAN)

Tabel V.3
Lanjutan

No.	Ligan	ΔG (kkal/mol)	KI (nM)	Residu asam amino yang berikatan	
				Hidrofobik	Hidrogen
5.	<i>Sauroposide</i>	-6,36	21,780	-	ARG126A ARG106A ASP76A TYR128A GLN95A
6.	<i>11,14,17-eicosatrienoic acid methyl ester</i>	-4,34	659,380	PHE57A PHE16A ALA33A PRO38A CYS117A TYR19A MET20A VAL25A	ARG126A
7.	<i>Methylpyroglutamate</i>	-5,43	104,290	ALA33A PRO38A PHE16A	TYR128A ARG126A

LAMPIRAN 14
(LANJUTAN)

Tabel V.3
Lanjutan

No.	Ligan	ΔG (kkal/mol)	KI (nM)	Residu asam amino yang berikatan	
				Hidrofobik	Hidrogen
8.	<i>Octadecanoic acid</i>	-5,23	146,310	ILE106A CYS117A TYR19A ALA75A MET20A PHE57A PRO38A PHE16A ALA33A	ARG126A
9.	<i>3,4-dimethyl-2-oxocyclopent-3-enylacetic acid</i>	-5,22	149,440	-	ARG126A ARG106A TYR128A
10.	<i>Guanosine</i>	-4,74	337,010	ALA75A ALA33A	ASP76A TYR128A
11.	<i>9-eicosyne</i>	-5,84	52,380	VAL23A ALA75A ALA33A ALA36A PRO38A ILE104A TYR128A TYR19A	-

LAMPIRAN 14

(LANJUTAN)

Tabel V.3
Lanjutan

No.	Ligan	ΔG (kkal/mol)	KI (nM)	Residu asam amino yang berikatan	
				Hidrofobik	Hidrogen
12.	<i>Monomethyl succinate</i>	-4,08	1,010	-	ARG126A ARG106A TYR128A
13.	<i>Ascorbic acid</i>	-3,83	1550000	-	TYR19A GLN95A ASP76A
14.	<i>Cyclopentanol</i>	-3,54	2540000	CYS117A VAL115A	ARG126A TYR128A
15.	<i>Phenyl malonic acid</i>	+0,50	-	ARG78A ILE104A ALA75A PRO38A ALA33A ALA36A SER53A	ASP76A ARG106A ARG126A CYS117A
16.	<i>Liriodendrin</i>	+13,73	-	TYR128A THR60A ILE51A ALA75A MET20A TYR19A GUN95A	ARG106A ARG78A CYS117A

LAMPIRAN 14
(LANJUTAN)

Tabel V.3
Lanjutan

No.	Ligan	ΔG (kkal/mol)	KI (nM)	Residu asam amino yang berikatan	
				Hidrofobik	Hidrogen
17.	<i>Kaempferol 3-gentiobioside-7-rhamnoside</i>	+48,28	-	ALA33A MET20A PHE57A CYS117A THR60A SER53A ARG126A	ASP76A ARG106A
18	<i>Orlistat</i>	-7,17	5,150	ALA75A MET20A PHE16A ASP76A ARG106A ILE104A CYS117A ILE62A ALA93A ALA96A PRO98A	ARG126A TY128A

LAMPIRAN 15

HASIL PENGUJIAN *PREADMET*

Tabel V.4
Hasil Pengujian *Pre-ADMET*

No.	Ligan	Absorpsi		Distribusi PPB(%)
		Caco ₂ (nm.Sec ⁻¹)	HIA (%)	
1.	<i>Isolariciresinol</i>	21,09	84,23	85,05
2.	<i>Guanosine</i>	9,24	25,89	8,04
3.	<i>Corchoionoside C</i>	10,89	46,82	41,86
4.	<i>Papaverine</i>	52,34	97,38	88,69
5.	<i>Sauroposide</i>	9,18	25,04	35,53
6.	<i>Ascorbic Acid</i>	2,48	33,15	5,30
7.	<i>Liriodendrin</i>	16,12	10,59	32,35
8.	<i>Kamferol-3-gentiobioside-7-rhamnoside</i>	6,79	0,59	25,92
9.	<i>Monomethyl succinate</i>	19,63	69,54	80,20
10.	<i>Phenyl malonic acid</i>	20,03	40,32	80,28
11.	<i>Cyclopentanol</i>	19,68	100	86,46
12.	<i>Methylpyroglutamate</i>	22,08	88,62	75,30
13.	<i>Andostan-17-one-3-ethyl-3-hydroxy-5-alpha</i>	33,27	95,62	100
14.	<i>3,4-dimethyl-2-oxocyclopent-3-enylacetic acid</i>	20,83	89,98	33,83
15.	<i>Octadecanoic acid</i>	28,29	98,44	100
16.	<i>9-eicosyne</i>	22,51	100	100
17.	<i>11,14,17-eicosatrienoic acid methyl ester</i>	48,21	100	100

Keterangan: *In vitro* CaCo-2 permeabilitas sel (nm. Sec⁻¹) :

>70 permeabilitas tinggi; 4-70 permeabilitas menengah; <4 permeabilitas rendah

Human Intestinal Absorption (HIA) : 70-100 % penyerapan baik

20-70% penyerapan cukup; 0-20% penyerapan kurang baik

Plasma Protein Binding (PPB): >90% ikatan kuat; <90% ikatan lemah

LAMPIRAN 16

HASIL PENGUJIAN TOKSISITAS

Tabel V.5
Hasil Pengujian Toksisitas

NO.	Senyawa	Crame Ruls	Kroes TTC	Benigne/bosarulebse
1.	<i>Isolariciresinol</i>	3	1	8,9
2.	<i>Guanosine</i>	3	2	1,9
3.	<i>Corchoionoside C</i>	3	2	1,9
4.	<i>Papaverine</i>	3	1	8,9
5.	<i>Sauroposide</i>	3	2	1,9
6.	<i>Ascorbic Acid</i>	3	1	8,9
7.	<i>Liriodendrin</i>	3	1	8,9
8.	<i>Kamferol-3-gentiobioside-7-rhamnoside</i>	3	1	8,9
9.	<i>Monomethyl succinate</i>	1	1	8,9
10.	<i>Phenyl malonic acid</i>	3	1	8,9
11.	<i>Cyclopentanol</i>	2	1	8,9
12.	<i>Methylpyroglutamate</i>	3	1	8,9
13.	<i>Andostan-17-one-3-ethyl-3-hydroxy-5-alpha</i>	3	1	8,9
14.	<i>3,4-dimethyl-2-oxocyclopent-3-enylacetic acid</i>	2	2	1,9
15.	<i>Octadecanoic acid</i>	1	1	8,9
16.	<i>9-eicosyne</i>	3	1	8,9
17.	<i>11,14,17-eicosatrienoic acid methyl ester</i>	1	1	8,9

Keterangan: Cramer ruler class 1 : low, class 2 : intermediet, class 3 : high. Benigni/bosa rulebase 2 (structural alert for non genotoxic carcinogenicity), 8 (negative for genotoxic carcinogenity), 9 (negative for non-genotoxic carcinogenicity). Kroes TTC decision tree 1 (Subtance would not be expected to be a safety concern)

LAMPIRAN 17

HASIL PENGUJIAN *LIPINSKI'S RULE OF FIVE*

Tabel V.6
Hasil Pengujian *Lipinski's Rule Of Five*

No.	Ligan	BM	Log P	Ikatan hidrogen		Keterangan
				Donor	Akseptor	
1.	<i>Isolariciresinol</i>	360	1,787	4	6	Memenuhi Syarat
2.	<i>Guanosine</i>	283	-2,81	6	9	Memenuhi Syarat
3.	<i>Corchoionoside C</i>	386	-0,57	5	8	Memenuhi Syarat
4.	<i>Papaverine</i>	339	3,859	0	5	Memenuhi Syarat
5.	<i>Sauroposide</i>	402	-1,60	6	9	Memenuhi Syarat
6.	<i>Ascorbic Acid</i>	176	-1,40	4	6	Memenuhi syarat
7.	<i>Liriodendrin</i>	742	-2,69	8	18	Tidak Memenuhi Syarat
8.	<i>Kamferol-3-gentiobioside-7-rhamnoside</i>	756	-4,11	12	20	Tidak Memenuhi Syarat
9.	<i>Monomethyl succinate</i>	132	0,024	1	4	Memenuhi Syarat
10.	<i>Phenyl malonic acid</i>	745	1,132	9	16	Tidak Memenuhi Syarat
11.	<i>Cyclopentanol</i>	86	0,921	1	1	Memenuhi Syarat
12.	<i>Methylpyroglutamate</i>	257	1,331	0	6	Memenuhi Syarat
13.	<i>Andostan-17-one-3-ethyl-3-hydroxy-5-alpha</i>	318	4,739	1	2	Memenuhi Syarat
14.	<i>3,4-dimethyl-2-oxocyclopent-3-enylacetic acid</i>	168	1,386	1	3	Memenuhi Syarat
15.	<i>Octadecanoic acid</i>	284	6,332	1	2	Memenuhi Syarat
16.	<i>9-eicosyne</i>	278	7,271	0	0	Memenuhi Syarat
17.	<i>11,14,17-eicosatrienoic acid methyl ester</i>	320	6,529	0	2	Memenuhi Syarat

Keterangan : BM (Berat molekul) <500 Dalton

Log P <5

Donor ikatan hidrogen <5

dan Akseptor ikatan hidrogen <10



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2. RIWAYAT PENDIDIKAN

Jenjang Pendidikan	Nama Sekolah/ Universitas	Tahun Masuk	Tahun Keluar
SD/ MI	SDN 1 WANARAJA	2006	2012
SMP/ MTs	SMPN 1 WANARAJA	2012	2015
SMA/ SMK/ MA	SMAN 18 GARUT	2015	2018
Perguruan tinggi	UNIVERSITAS GARUT	2018	2022