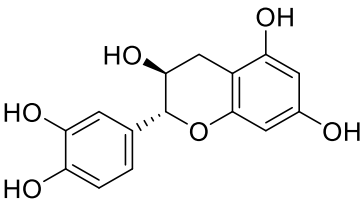
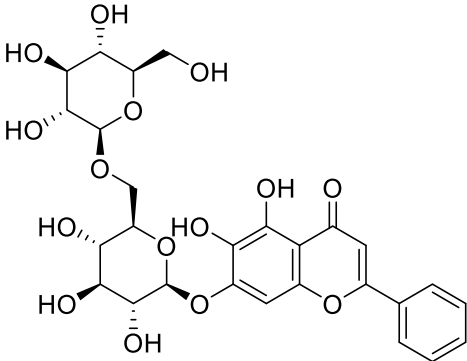
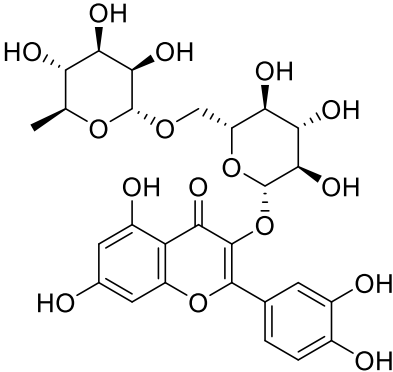
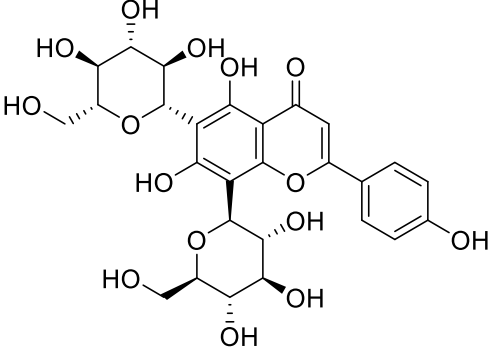
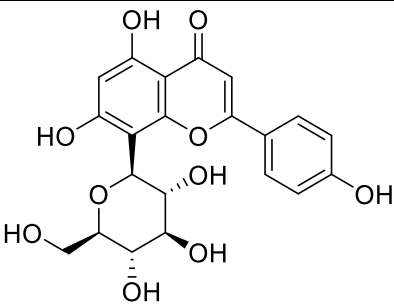
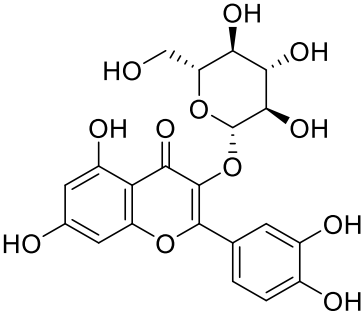
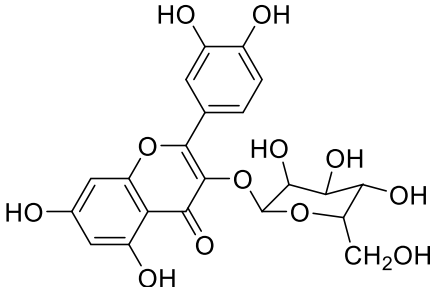
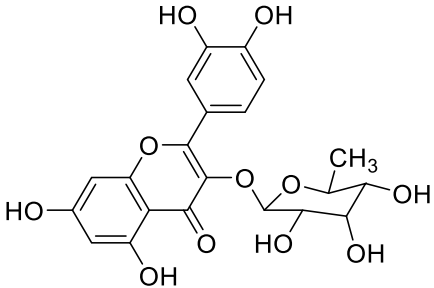
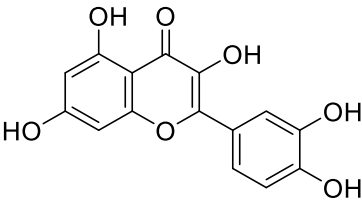
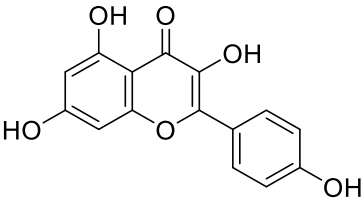
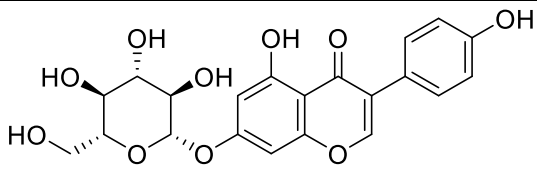
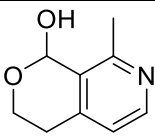
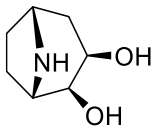
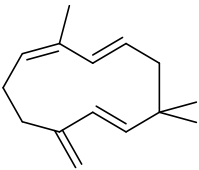
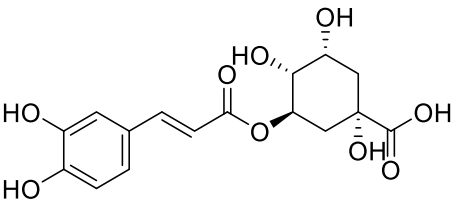
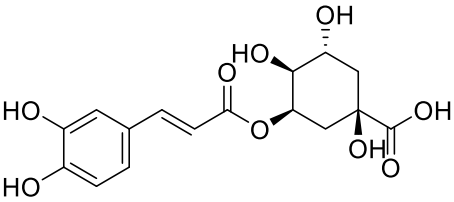
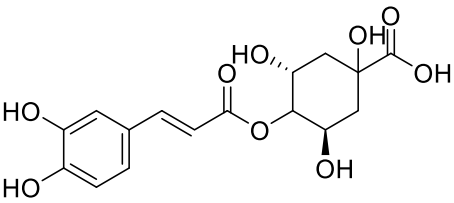
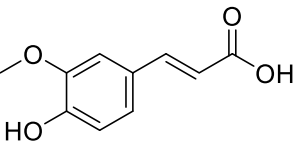
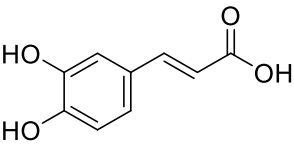


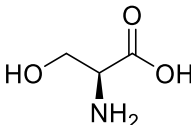
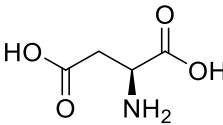
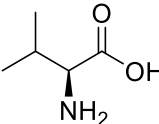
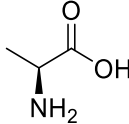
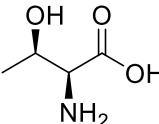
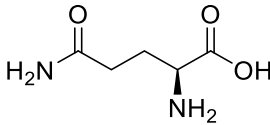
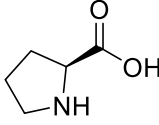
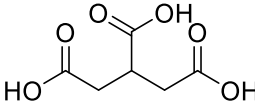
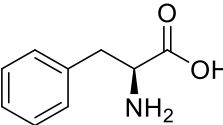
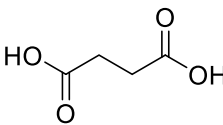
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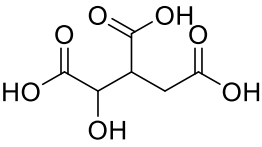
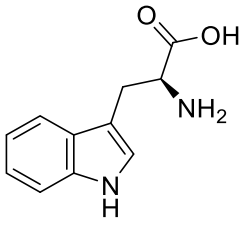
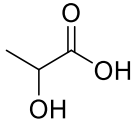
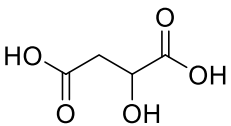
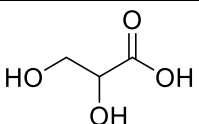
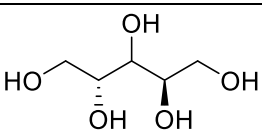
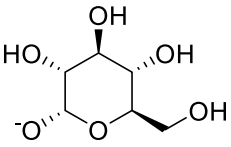
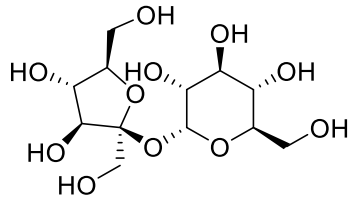
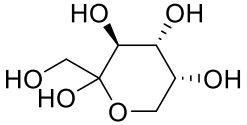
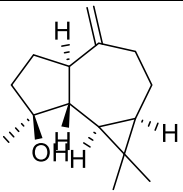
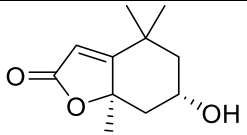
Lampiran 1: Kandungan Kimia Daun Kenikir

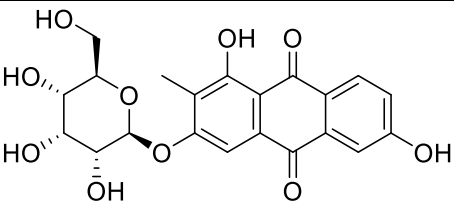
No	Kode	Nama Senyawa	Struktur Kimia	Golongan	Sumber
1.	LU1	<i>Catechin</i>		<i>Flavonoid</i>	(Bunawan <i>et al.</i> , 2014; Javadi <i>et al.</i> , 2014; H. A. Rahman <i>et al.</i> , 2017)
2.	LU2	<i>Oroxin B</i>		<i>Flavonoids</i>	(Firdaus <i>et al.</i> , 2021)
3.	LU3	<i>Rutin</i>		<i>Flavonoid</i>	(H. A. Rahman <i>et al.</i> , 2017)
4.	LU4	<i>Vicenin-2</i>		<i>Flavonoid 8-c-glycoside</i>	(Azwanida <i>et al.</i> , 2020)

5.	LU5	<i>Vitexin</i>		<i>Flavonoid 8-c-glycoside</i>	(Azwanida <i>et al.</i> , 2020)
6.	LU6	<i>Quercetin 3-O-glucoside</i>		<i>Flavonoid-3-o-glycoside</i>	(Bunawan <i>et al.</i> , 2014)
7.	LU7	<i>Quercetin 3-O-β-glucoside</i>		<i>Flavonoid-3-o-glycoside</i>	(H. A. Rahman <i>et al.</i> , 2017)
8.	LU8	<i>Quercetin 3-O-α-rhamnoside</i>		<i>Flavonoid-3-o-glycoside</i>	(H. A. Rahman <i>et al.</i> , 2017)
9.	LU9	<i>Quercetin</i>		<i>Flavonol</i>	(Firdaus <i>et al.</i> , 2021; H. A. Rahman <i>et al.</i> , 2017)
10	LU10	<i>Kaempferol</i>		<i>Flavonol</i>	(H. A. Rahman <i>et al.</i> , 2017)

11	LU11	<i>Genistin</i>		<i>Isoflavone</i>	(Firdaus et al., 2021)
12	LU12	<i>Gentiatibetine</i>		<i>Alkaloid</i>	(Firdaus et al., 2021)
13	LU13	<i>2β,3β-Dihydroxynortropane</i>		<i>Tropane Alkaloids</i>	(Firdaus et al., 2021)
14	LU14	<i>δ-Humulene</i>		<i>Terpenoid</i>	(Firdaus et al., 2021)
15	LU15	<i>Chlorogenic Acid</i>		<i>Phenolic Acids</i>	(Bunawan et al., 2014; H. A. Rahman et al., 2017)
16	LU16	<i>Neochlorogenic Acid</i>		<i>Phenolic Acids</i>	(Bunawan et al., 2014)
17	LU17	<i>Cryptochlorogenic Acid</i>		<i>Phenolic Acids</i>	(Bunawan et al., 2014)
18	LU18	<i>Ferulic Acid</i>		<i>Phenolic Acids</i>	(Bunawan et al., 2014)
19	LU19	<i>Caffeic Acid</i>		<i>Phenolic Acids</i>	(Bunawan et al., 2014)

20	LU20	Serine		α -Amino Acid	(Javadi et al., 2014)
21	LU21	L-Aspartic acid		α -Amino Acid	(Javadi et al., 2014)
22	LU22	Valine		α -Amino Acid	(Javadi et al., 2014; H. A. Rahman et al., 2017)
23	LU23	Alanine		α -Amino Acid	(H. A. Rahman et al., 2017)
24	LU24	L-Threonine		Proteinogenic Amino Acid	(Javadi et al., 2014)
25	LU25	Glutamine		Proteinogenic Amino Acid	(Javadi et al., 2014)
26	LU26	Proline		Proteinogenic Amino Acid	(Javadi et al., 2014)
27	LU27	Propane-1,2,3-tricarboxylic acid		Carboxylic Acids	(Javadi et al., 2014)
28	LU28	Phenylalanine		Carboxylic Acid	(Azwanida et al., 2020; Firdaus et al., 2021)
29	LU29	Succinic Acid (Butanedioic Acid)		Dicarboxylic Acid	(Javadi et al., 2014)

30	LU30	<i>Isocitric acid</i>		<i>Tricarboxylic acid</i>	(H. A. Rahman <i>et al.</i> , 2017)
31	LU31	<i>Tryptophan</i>		<i>Indolyl carboxylic acid</i>	(Azwanida <i>et al.</i> , 2020)
32	LU32	<i>Lactic acid</i>		<i>α-Hydroxy Acid</i>	(Javadi <i>et al.</i> , 2014)
33	LU33	<i>Malic acid</i>		<i>Beta Hydroxy Acids</i>	(Javadi <i>et al.</i> , 2014)
34	LU34	<i>Glyceric Acid</i>		<i>Sugar Acids</i>	(Javadi <i>et al.</i> , 2014)
35	LU35	<i>D-(+)-Arabitol</i>		<i>Sugar Alcohols</i>	(Javadi <i>et al.</i> , 2014)
36	LU36	<i>α-D-glucopyranoside</i>		<i>o-glycosyl</i>	(Javadi <i>et al.</i> , 2014)
37	LU37	<i>Sucrose</i>		<i>o-glycosyl</i>	(H. A. Rahman <i>et al.</i> , 2017)
38	LU38	<i>D-Fructose</i>		<i>C-Glycosyl</i>	(Javadi <i>et al.</i> , 2014)
39	LU39	<i>Spathulenol</i>		<i>Tricyclic Alcohol</i>	(Firdaus <i>et al.</i> , 2021)
40	LU40	<i>Digiprolactone</i>		<i>Benzofuran</i>	(Firdaus <i>et al.</i> , 2021)

41	LU41	<i>1,3,6-Trihidroxy-2-methylantraquinone-3-O-β-D-glucopyranoside</i>		<i>Hydroxyanthraquinone</i>	(Firdaus <i>et al.</i> , 2021)
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Lampiran 2: Interaksi Hasil *Docking*

Kode	Nama Senyawa	Jenis Interaksi dan Residu Asam Amino
LIG	Acarbose	Hidrogen : Asp542, Asp542, Asp327, His600, Arg526, Asp203, Met444, Thr205, Asn207 <i>van der Waals</i> : Ile328, Phe450, Thr204, Asn209, Asp443, Phe575, Trp539, Trp441, Arg598
LU1	<i>Catechin</i>	Hidrogen : Asp542, Asp542, Asp327, Tyr605 <i>van der Waals</i> : Ala576, Arg526, Asp203, Trp539, Trp441, His600, Ile364, Ile328, Trp406, Gln603, Gly602 Pi-Pi : Tyr299, Phe575 Pi-Anion : Asp443
LU2	<i>Oroxin B</i>	Hidrogen : Asp203, Tyr605, Thr205 <i>van der Waals</i> : Ala576, Phe575, Thr204, His600, Trp441, Asp327, Trp539, Ile364, Arg526, Tyr299, Met444, Phe450 Pi-Pi : Trp406 Pi-Anion : Asp443 Unfavorable : Asp542
LU3	<i>Rutin</i>	Hidrogen : Asp443, Asp542, Asp542, Arg526, Asp203, Met444, Trp406 <i>van der Waals</i> : Glu404, Ile364, Ile328, His600, Trp441, Tyr299, Phe575, Thr205, Ser448, Thr204, Arg202 Pi-Pi : Phe450 Alkyl : Lys480
LU4	<i>Vicenin-2</i>	Hidrogen : Arg526, Asp203, Tyr605, Arg526, Asp203, Arg334, Gln603 <i>van der Waals</i> : Ala576, Gly602, Asp542, Phe575, Trp406, Phe450, Gly604 Pi-Pi : Tyr299 Sulfur-X : Met444
LU5	<i>Vitexin</i>	Hidrogen : Arg526, Asp203, Gln603, Arg334, Tyr299 <i>van der Waals</i> : Tyr605, Phe575, Phe405 Pi-Pi : Trp406 Sulfur-X : Met444 Pi-Anion : Asp542

		Donor Hydrogen Bond : Gly602
LU6	<i>Quercetin 3-O-glucoside</i>	Hydrogen : Asp327, Asp203, Ser448, Gln603 <i>van der Waals</i> : Phe450, Gly602, Ala576, Tyr605, Tyr299, Ile328, Ile364, Trp441, His600, Trp406, Arg526 Pi-Pi : Phe575 Sulfur-X : Met444 Pi-Anion : Asp542, Asp443
LU7	<i>Quercetin 3-O-β-glucoside</i>	Hydrogen : Asp542, Asp327, Asp203, Gln603 <i>van der Waals</i> : Phe450, Arg526, Tyr214, Trp441, Ile364, Ile328, Tyr299, Tyr605, Gly602, Trp406, Asp443 Pi-Pi : Phe575 Sulfur-X : Met444
LU8	<i>Quercetin 3-O-α-rhamnoside</i>	Hydrogen : Asp327, Asp203, Ser448, Gln603, Tyr605 <i>van der Waals</i> : Ala576, Leu577, Gly602, Phe575, Tyr299, Ile328, His600, Trp441, Ile364, Arg526, Phe405 Pi-Pi : Trp406 Sulfur-X : Met444 Pi-Anion : Asp542, Asp443
LU9	<i>Quercetin</i>	Hydrogen : Asp443, Asp542, Asp327, Arg526, Tyr605 <i>van der Waals</i> : Trp539, Met444, Ala576, Gln603, Ile364, Ile328, Trp406 Pi-Pi : Tyr299, Phe575
LU10	<i>Kaempferol</i>	Hydrogen : Asp443, Asp542, Arg526, Gln603 <i>van der Waals</i> : Gly604, Gly602, Asp327, Ile364, Met444, Asp203, Tyr605 Pi-Pi : Tyr299, Phe575, Trp406
LU11	<i>Genistin</i>	Hydrogen : Asp443, Asp542 <i>van der Waals</i> : Gly604, Phe575, Asp327, Trp441, Ile364, Trp539, Arg526, Met444, Asp203, Trp406, Gly602, Tyr605 Pi-Pi : Tyr299 Donor Hydrogen Bond : Gln603
LU12	<i>Gentiatibetine</i>	Hydrogen : Asp327 <i>van der Waals</i> : Trp406, Ile328, Ile364, Tyr299, Phe575, His600, Trp441, Trp539, Asp542, Arg526 Alkyl : Met444 Pi-Anion : Asp443

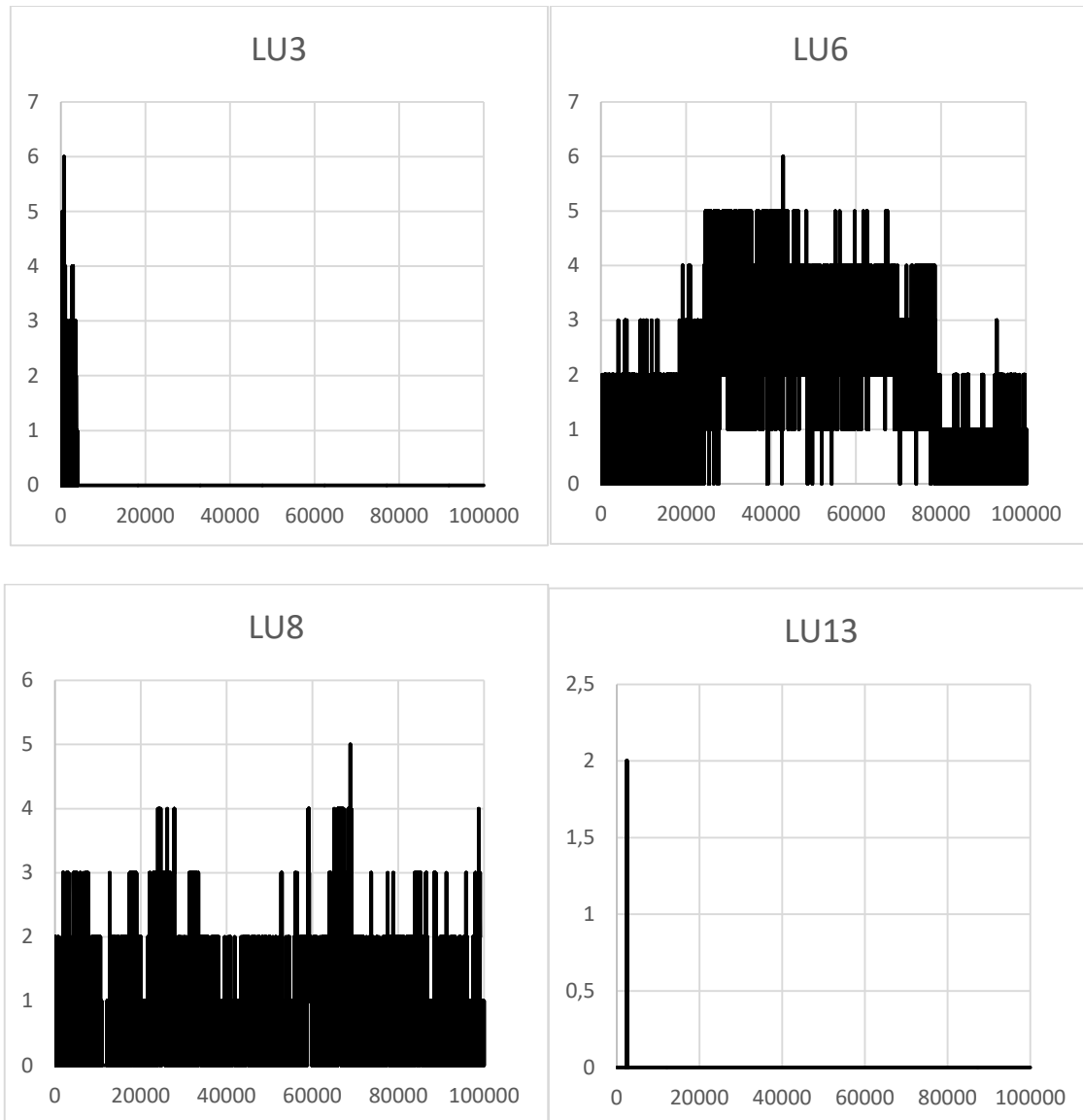
LU13	<i>2β,3β-Dihydroxynortropine</i>	Hydrogen : Asp443, Asp327 <i>van der Waals</i> : Met444, Ile364, Ile328, Tyr299, Trp441, His600, Arg526, Trp539, Asp542 Alkyl : Trp406, Phe575
LU14	<i>δ-Humulene</i>	<i>van der Waals</i> : Glu182, Leu213, His183, Glu559, Gly556, Gln186, His185, Trp552, Ser553, Pro570, Asp549, Asn543, Tyr214, Phe560 Alkyl : Pro206, Leu540, Val184, Pro555 Donor Hydrogen Bond : Trp406, Tyr299
LU15	<i>Chlorogenic Acid</i>	Hydrogen : Asp327, Tyr605, Gln603, Tyr299 <i>van der Waals</i> : Gly602, Ala576, Phe575, Ile328, Ile364, Trp441, Trp406, Arg334, Arg526, Asp542, Asp443
LU16	<i>Neochlorogenic Acid</i>	Hydrogen : Asp327, Gln603, Tyr299 <i>van der Waals</i> : Trp539, Ala576, Asp542, Phe575, Gly602, Tyr605, Trp406, Arg334, Ile 328, Ile364, Trp364 Pi-Anion : Asp443
LU17	<i>Cryptochlorogenic Acid</i>	Hydrogen : Asp542, Asp327, Arg202 <i>van der Waals</i> : Tyr214, Thr205, Thr204, Leu473, Arg526, Lys480, Met444, Trp406, Phe575, Tyr299, Ile328, Ile364, His600, Trp441, Trp539 Pi-Anion : Asp443 Unfavorable : Asp203
LU18	<i>Ferulic Acid</i>	Hydrogen : Glu559, His185, Asp549, Asn543 <i>van der Waals</i> : Pro206, Gly556, His183, Gl186, Ser553, Leu550, Trp587, Pro570 Alkyl : Trp552, Pro555, Leu540 Sulfur-X : Met444 Pi-Sigma : Val184
LU19	<i>Caffeic Acid</i>	Hydrogen : Glu559, His185, Asp549, Asn543 <i>van der Waals</i> : Pro206, Gly556, His183, Pro555, Trp552, Ser553, Leu550, Trp587, Pro570 Alkyl : Leu540 Pi-Sigma : Val184 Unfavorable : Gln186
LU20	<i>Serine</i>	Hydrogen : Tyr476, Cys479, Arg202, Leu473, Asn212 <i>van der Waals</i> : Phe478, Leu477, Thr481, Lys480, Phe200, His497, Gly475, Asp 474, Ile472 Donor Hydrogen Bond : Asn201

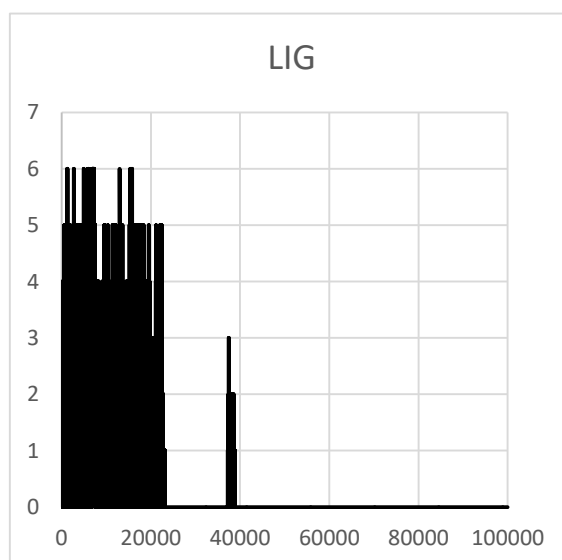
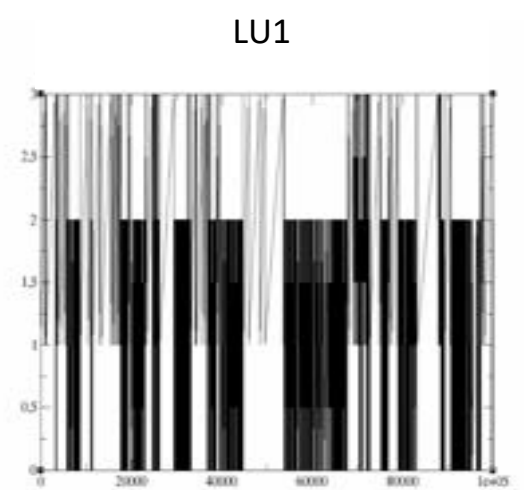
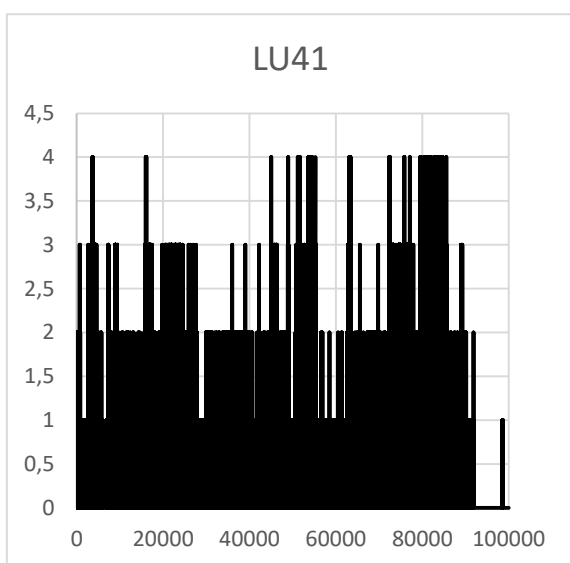
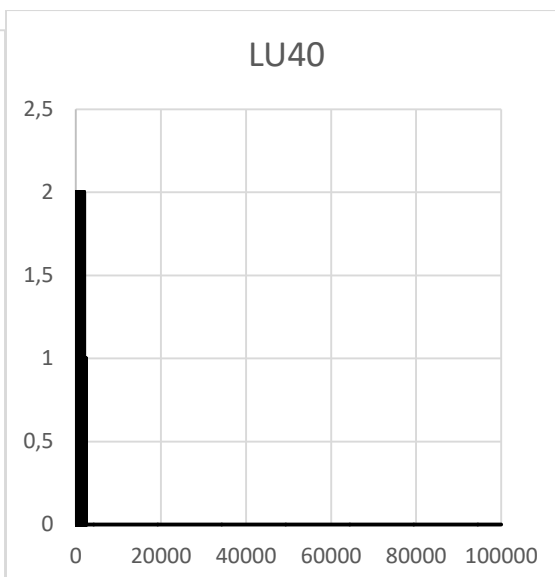
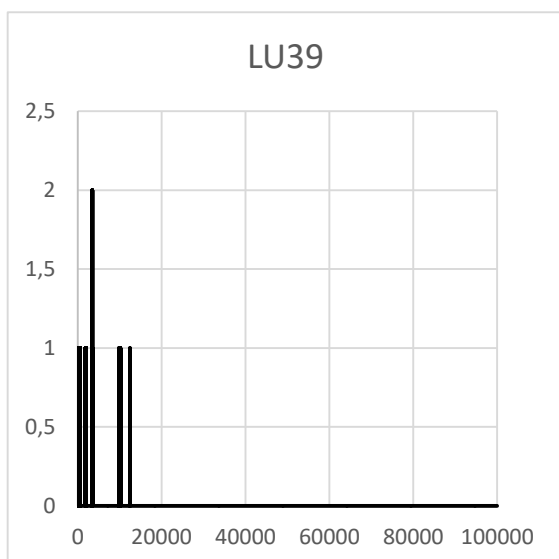
LU21	<i>L-Aspartic acid</i>	Hydrogen : Asp578, Lys606 van der Waals : Thr579, Glu581 Donor Hydrogen Bond : Pro580
LU22	<i>Valine</i>	Hydrogen : Glu300 van der Waals : Phe344, Asp340, Asp343, Gly302, Asp329, Ile328, Tyr299, Arg334, Met331, Glu333
LU23	<i>Alanine</i>	Hydrogen : Arg334, Met331, Ile328, Asp340 van der Waals : Glu300, Asp329, Asp332, Glu333, Asp343, Tyr330
LU24	<i>L-Threonine</i>	Hydrogen : Asp327 van der Waals : Tyr299, Trp406, Phe575, Arg526, Ile364, Ile328, Asp542 Alkyl : His600, Trp441, Trp539
LU25	<i>Glutamine</i>	Hydrogen : Asp542, Asp327 van der Waals : Gly541, Arg526, Ile364, Ile328, Trp406, Tyr299, Trp441, Phe575, His600, Arg598, Trp539, Asp443 Donor Hydrogen Bond : Ile369
LU26	<i>Proline</i>	Hydrogen : Asp336, Arg334, Tyr379 van der Waals : Met331, Arg335, Ser370, Val405, Thr410, Ile328, Asp336 Alkyl : Trp406, Ala368, Pro407
LU27	<i>Propane-1,2,3-tricarboxylic acid</i>	Hydrogen : Phe450, Asp452, Lys480 van der Waals : Val451
LU28	<i>Phenylalanine</i>	Hydrogen : Pro206, Asn543, Asp549 van der Waals : His183, Gly556, Thr544, Asn207, Trp587, Pro570, Ser553, Trp552, Leu213, Glu182 Pi-Sigma : Val184, Leu540
LU29	<i>Succinic Acid (Butanedioic Acid)</i>	Hydrogen : Asp203, Arg202, Asn201, Asn212, Cys479, Leu477 van der Waals : Lys480, Ser448, Phe200, Ile472, Leu473, Tyr476, Phe478, Val447, Glu446, His497 Donor Hydrogen Bond : Thr481
LU30	<i>Isocitric acid</i>	Hydrogen : Phe450, Asp452, Lys480 van der Waals : Val451
LU31	<i>Tryptophan</i>	Hydrogen : Asp542, Asp203

		<i>van der Waals</i> : Tyr214, Arg526, Ser448, Phe450, Pi-Pi : Phe575, Asp327, Ile364, Asp443 Alkyl : Ile328 Pi-Pi : Trp406, Tyr299 Sulfur-X : Met444
LU32	<i>Lactic acid</i>	Hydrogen : Asp607, Asp609, Asn601 <i>van der Waals</i> : Arg313, Tyr301, Val310, Lys606, Gln605 Donor Hydrogen Bond : Arg298 Unfavorable : Arg298
LU33	<i>Malic acid</i>	Hydrogen : Asp5452, Phe450, Lys480 <i>van der Waals</i> : Val451
LU34	<i>Glyceric Acid</i>	Hydrogen : Gly208, Lys195 <i>van der Waals</i> : Trp197, Gln186, Val184, Asn209, Gly210
LU35	<i>D-(+)-Arabitol</i>	Hydrogen : Asp443, Asp542, Arg526, Trp406, Asp443 <i>van der Waals</i> : Met444, Ile328, Ile364, Asp327, Phe575, Trp441, Asp366, His600, Trp539
LU36	<i>α-D-glucopyranoside</i>	Hydrogen : Asp443, Asp542, Trp406 <i>van der Waals</i> : Ile328, Tyr299, Ile364, His600, Trp441, Arg526, Asp203, Met444, Phe575
LU37	<i>Sucrose</i>	Hydrogen : Arg526, Asp203 <i>van der Waals</i> : Phe575, Thr205, Thr204, Arg202, Lys480, Leu473, Lys480, Phe450, Ser448, Trp406 Sulfur-X : Met444 Donor Hydrogen Bond : Asp542
LU38	<i>D-Fructose</i>	Hydrogen : Asp542, Asp327 <i>van der Waals</i> : Phe575, Trp441, His600, Tyr299, Ile364, Ile328, Trp406, Trp539 Donor Hydrogen Bond : Asp443, Arg526
LU39	<i>Spathulenol</i>	Hydrogen : Asp542 <i>van der Waals</i> : His600, Tyr214, Trp539, Gly541, Met444, Asp327, Ile328, Asp443, Ile364 Pi-Pi : Trp441, Tyr299, Trp406 Pi-Sigma : Phe575
LU40	<i>Digiprolactone</i>	Hydrogen : Asp327, Trp539

		<i>van der Waals</i> : Ile328, Trp406, Arg526, Met444, Asp443, Asp542, Gly541, Asp571, Trp441, Arg598, His600, Phe575, Ile364, Tyr299
LU41	1,3,6-Trihidroxy-2-methylanthrquinone-3-O-β-D-glucopyranoside	Hidrogen : Arg526, Asp203, Gln603, Tyr299 <i>van der Waals</i> : Arg334, Phe450, Asp443, Trp539, Asp327, Trp441, Ile364, His600, Phe575 Pi-Pi : Trp406 Sulfur-X : Met444 Pi-Anion : Asp542

Lampiran 3: Ikatan Hidrogen





Lampiran 4: Turnitin

98. RIZKI DYAH RAHMAWATI_191FF03061

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Lampiran 5: Daftar Riwayat Hidup

DAFTAR RIWAYAT HIDUP



Nama : Rizki Dyah Rahmawati
 Tempat/Tanggal Lahir : Purwokerto/18 Juni 1999
 Jenis Kelamin : Perempuan
 Agama : Islam
 Kewarganegaraan : Indonesia
 Alamat : Jl. Cisaranten Baru No. 2 RT/RW 03/02, Cisaranten Kulon,
 Arcamanik, Bandung, Jawa Barat
 Telepon : 081806645022
 Email : rizki.dyah1806@gmail.com

PENDIDIKAN

TK : TK Sejahtera Cilegon
 SD : SDN 4 Cilegon
 SMP : SMPN 2 Cilegon
 SMA : SMAN 2 Krakatau Steel Cilegon
 S1 : Universitas Bhakti Kencana



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Utama	: Dr. apt. Fauzan Zein Muttaqin, M.Si
Nama Mahasiswa	: Rizki Dyah Rahmawati
NPM	: 191FF03051
Bidang Ilmu	: AFKM

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Senin/03-03-2023	08.00	Lab Kimia Medisinal Komputasi	Pelatihan Docking	
2	Kamis/30-03-2023	12.30	Ruang LPPM	Persiapan penelitian di kampus	
3.	Sabtu/15-03-2023	09.00	Zoom	Laporan Kemajuan 1 TA II	
4.	Senin/17-03-2023	11.00	WhatsApp	Konsultasi Validasi Docking	
5.	Minggu/23-04-2023	13.22	WhatsApp	Melaporkan Validasi Docking yang valid	
6.	Sabtu/29-04-2023	07.00	WhatsApp	Konsultasi Hasil Validasi Docking	
7.	Jumat/15-05-2023	12.45	WhatsApp	Error saat docking	
8.	Senin/22-05-2023	08.00	Zoom	Laporan Kemajuan 2 TA II	
9.	Jumat / 26-05-2023	09.00	Ruang LPPM	konsultasi hari docking	
10.	Jumat / 06-06-2023	14.00	Ruang LPPM	tanda tangan lembar pengesahan	

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Utama	: Dr. apt. Deden Indra Dinata, M.Si
Nama Mahasiswa	: Rizki Dyah Rahmawati
NPM	: 191FF03051
Bidang Ilmu	: AFKM

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Kamis/09-03-2023	8.19	WhatsApp	Senyawa yang perlu digambar	<i>[Signature]</i>
2	Rabu/04-04-2023	10.00	Ruangan Dosen	Validasi Docking	<i>[Signature]</i>
3.	Jumat/14-04-2023	9.00	Zoom	Laporan Kemajuan 1 TA II	<i>[Signature]</i>
4.	Minggu/16-04-2023	13.15	WhatsApp	Konsultasi Validasi Docking	<i>[Signature]</i>
5.	Senin/17-04-2023	11.00	WhatsApp	Konsultasi Validasi Docking	<i>[Signature]</i>
6.	Senin/15-05-2023	15.00	WhatsApp	Konsultasi Validasi Docking	<i>[Signature]</i>
7.	Jumat/19-05-2023	12.45	WhatsApp	Error saat docking	<i>[Signature]</i>
8.	Senin/22-05-2023	08.00	Zoom	Laporan Kemajuan 2 TA II	<i>[Signature]</i>
9.	Senin / 6 - 06 - 2023	10.00	Ruangan Dosen	Konsultasi hasil Docking	<i>[Signature]</i>
10.	Senin / 10 - 06 - 2023	12.00	Ruangan Dosen	Tanda tangan lembar pengesahan	<i>[Signature]</i>
Jl. Soekarno Hatta No 754 Bandung					
☎ 022 7830 760, 022 7830 768					
🌐 www.bhaktikencana.ac.id					

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.