

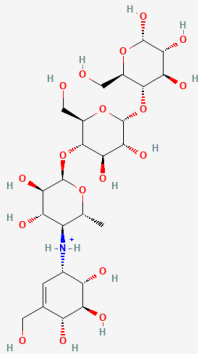
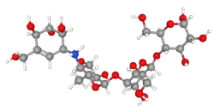
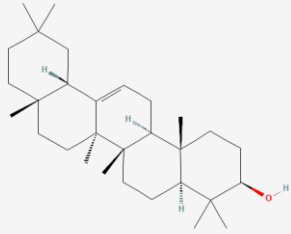
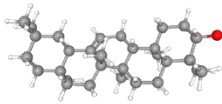
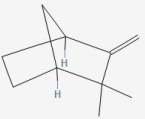
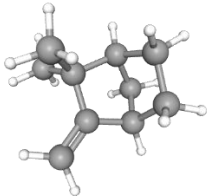
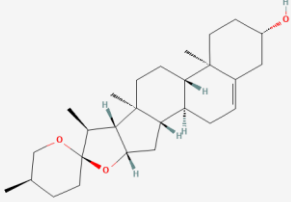
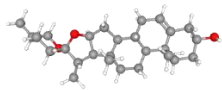
Lampiran 1 Daftar Ligan Uji dan Ligan Alami

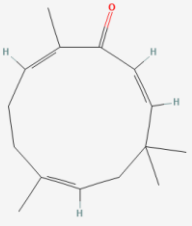
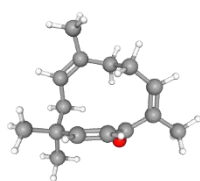
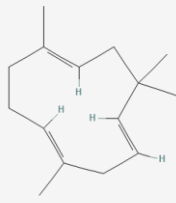
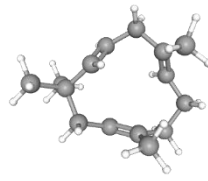
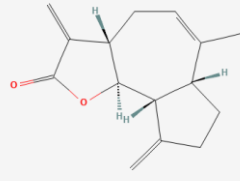
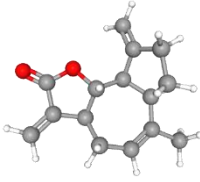
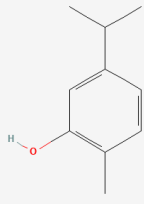
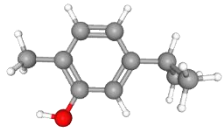
Kode senyawa	Nama Senyawa	Rumus senyawa	Smiles
Ligan alami	2QMJ	<u>C₂₅H₄₄NO₁₈</u>	<chem>C[C@@H]1[C@H]([C@@H]([C@H]([C@H](O1)O[C@@H]2[C@H](O[C@@H]([C@@H]([C@H]2O)O)O[C@@H]3[C@H](O[C@@H]([C@@H]([C@H]3O)O)O)CO)CO)O)[NH2+][C@H]4C=C([C@H]([C@@H]([C@H]4O)O)O)CO</chem>
D2	Beta Amyrin	<u>C₃₀H₅₀O</u>	<chem>C[C@@]12CC[C@@]3(C(=CC[C@H]4[C@@]3(CC[C@@H]5[C@@]4(CC[C@@H](C5(C)C)O)C)C)[C@@H]1CC(CC2)(C)C</chem>
D3	Camphe ne	<u>C₁₀H₁₆</u>	<chem>CC1(C2CCC(C2)C1=C)C</chem>
D4	Diosgeni n	<u>C₂₇H₄₂O₃</u>	<chem>C[C@@H]1CC[C@@]2([C@H]([C@H]3[C@@H](O2)C[C@@H]4[C@@]3(CC[C@@H]5[C@H]4CC=C6[C@@]5(CC[C@@H](C6)O)C)C)OC1</chem>
D5	Tetramet hylcyclo undeca	<u>C₁₅H₂₂O</u>	<chem>C/C/1=C/CC(/C=C\C(=O)/C(=C\CC1)/C)(C)C</chem>
D6	A- Humulen e	<u>C₁₅H₂₄</u>	<chem>C/C/1=C\CC(/C=C/C/C(=C/CC1)/C)(C)C</chem>
D7	Eremant hin	<u>C₁₅H₁₈O₂</u>	<chem>CC1=CC[C@@H]2[C@@H]([C@@H]3[C@H]1CCC3=C)OC(=O)C2=C</chem>
D8	Carvacro l	<u>C₁₀H₁₄O</u>	<chem>CC1=C(C=C(C=C1)C(C)C)O</chem>
D9	pinocarv eol	<u>C₁₀H₁₆O</u>	<chem>CC1(C2CC1C(=C)C(C2)O)C</chem>
D10	Cineol	<u>C₁₀H₁₈O</u>	<chem>CC1(C2CCC(O1)(CC2)C)C</chem>
D11	Cadinene	<u>C₁₅H₂₆</u>	<chem>C[C@H]1CC[C@H]([C@H]2[C@H]1C=C[C@@H](C2)C)C(C)C</chem>
D12	Reynosin	<u>C₁₅H₂₀O₃</u>	<chem>C[C@@]12CC[C@@H]3[C@@H]([C@H]1C(=C)CC[C@H]2O)OC(=O)C3=C</chem>
D13	Beta sitosterol	<u>C₂₉H₅₀O</u>	<chem>CC[C@H](CC[C@@H](C)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O)C)C(C)C</chem>
D14	Kaempfe rol	<u>C₁₅H₁₀O₆</u>	<chem>C1=CC(=CC=C1C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)O)O</chem>

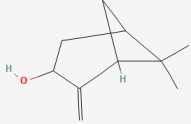
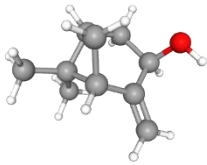
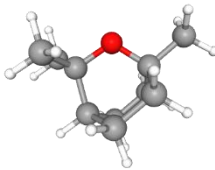
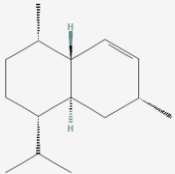
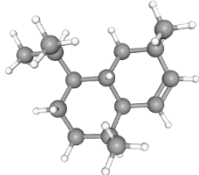
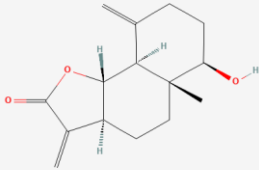
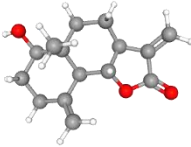
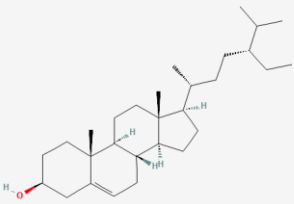
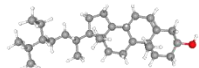
D15	Luteolin	<u>C₁₅H₁₀O₆</u>	<chem>C1=CC(=C(C=C1C2=CC(=O)C3=C(C=C(C=C3O2)O)O)O)O</chem>
D16	Apigenin	<u>C₁₅H₁₀O₅</u>	<chem>C1=CC(=CC=C1C2=CC(=O)C3=C(C=C(C=C3O2)O)O)O</chem>
D17	Rutin	<u>C₂₇H₃₀O₁₆</u>	<chem>C[C@H]1[C@@H]([C@H]([C@H]([C@@H](O1)OC[C@@H]2[C@H]([C@@H]([C@H]([C@@H](O2)OC3=C(OC4=CC(=CC(=C4C3=O)O)O)C5=CC(=C(C=C5)O)O)O)O)O)O)O</chem>
D18	Naringenin	<u>C₁₅H₁₂O₅</u>	<chem>C1[C@H](OC2=CC(=CC(=C2C1=O)O)O)C3=CC=C(C=C3)O</chem>
D19	Hesperidin	<u>C₂₈H₃₄O₁₅</u>	<chem>C[C@H]1[C@@H]([C@H]([C@H]([C@@H](O1)OC[C@@H]2[C@H]([C@@H]([C@H]([C@@H](O2)OC3=CC(=C4C(=O)C[C@H](OC4=C3)C5=CC(=C(C=C5)O)C)O)O)O)O)O)O)O</chem>
D20	Myricetin	<u>C₁₅H₁₀O₈</u>	<chem>C1=C(C=C(C(=C1O)O)O)C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)O</chem>
D21	Isohamnetin	<u>C₁₆H₁₂O₁₀S</u>	<chem>COC1=C(C=CC(=C1)C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)OS(=O)(=O)O)O</chem>
D22	Fisetin	<u>C₁₅H₁₀O₆</u>	<chem>C1=CC(=C(C=C1C2=C(C(=O)C3=C(O2)C=C(C=C3)O)O)O)O</chem>
D23	Baicalein	<u>C₁₅H₁₀O₅</u>	<chem>C1=CC=C(C=C1)C2=CC(=O)C3=C(O2)C=C(C(=C3O)O)O</chem>
D24	Chrysin	<u>C₁₅H₁₀O₄</u>	<chem>C1=CC=C(C=C1)C2=CC(=O)C3=C(C=C(C=C3O2)O)O</chem>
D25	Genistein	<u>C₁₅H₁₀O₅</u>	<chem>C1=CC(=CC=C1C2=COC3=CC(=CC(=C3C2=O)O)O)O</chem>
D26	Daidzein	<u>C₁₅H₁₀O₄</u>	<chem>C1=CC(=CC=C1C2=COC3=C(C2=O)C=CC(=C3)O)O</chem>
D27	Biochanina	<u>C₁₆H₁₂O₅</u>	<chem>COC1=CC=C(C=C1)C2=COC3=CC(=CC(=C3C2=O)O)O</chem>
D28	Stigmasteryl	<u>C₂₉H₄₈O</u>	<chem>CC[C@H]1C=C/[C@@H](C)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O)C)C(C)C</chem>
D29	Friedelin	<u>C₃₀H₅₀O</u>	<chem>C[C@H]1C(=O)CC[C@@H]2[C@@]1(CC[C@H]3[C@]2(CC[C@@]4([C@@]3(C[C@@]5([C@H]4CC(CC5)(C)C)C)C)C)C</chem>

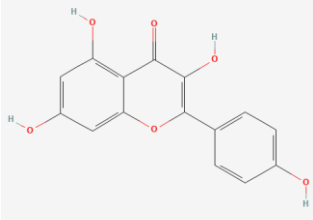
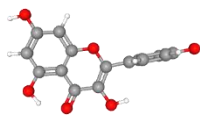
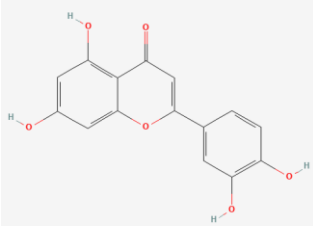
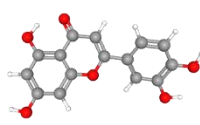
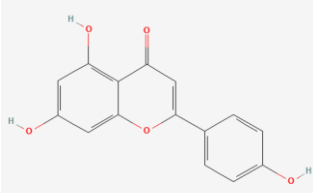
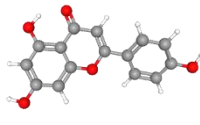
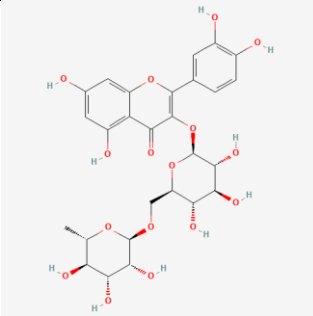
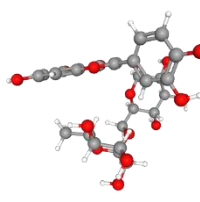
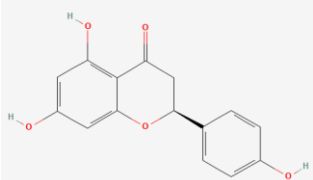
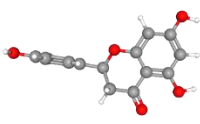
D30	Lanosterol	<u>C₃₀H₅₀O</u>	<chem>C[C@H](CCC=C(C)C)[C@H]1CC[C@@]2([C@@]1(CCC3=C2CC[C@@H]4[C@@]3(CC[C@@H](C4(C)C)O)C)C)C</chem>
D31	Cycloartenol	<u>C₃₀H₅₀O</u>	<chem>C[C@H](CCC=C(C)C)[C@H]1CC[C@@]2([C@@]1(CC[C@]34[C@H]2CC[C@@H]5[C@]3(C4)CC[C@@H](C5(C)C)O)C)C</chem>
D32	Fucosterol	<u>C₂₉H₄₈O</u>	<chem>C/C=C\CC[C@@H](C)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O)C)C/C(C)C</chem>
D33	Botulin		
D34	Uvaol	<u>C₃₀H₅₀O₂</u>	<chem>C[C@@H]1CC[C@@]2(CC[C@@]3(C(=CC[C@H]4[C@]3(CC[C@@H]5[C@@]4(CC[C@@H](C5(C)C)O)C)C)[C@@H]2[C@H]1C)C)CO</chem>
D35	Geraniol	<u>C₁₀H₁₈O</u>	<chem>CC(=CCC/C(=C/CO)/C)C</chem>
D36	Myrcene	<u>C₁₀H₁₆</u>	<chem>CC(=CCCC(=C)C=C)C</chem>
D37	Caryophyllene	<u>C₁₅H₂₄</u>	<chem>C/C/1=C\CCC(=C)[C@H]2CC([C@@H]2CC1)(C)C</chem>
D38	Sabinene	<u>C₁₀H₁₆</u>	<chem>CC(C)C12CCC(=C)C1C2</chem>
D39	Bisabolol	<u>C₁₅H₂₆O</u>	<chem>CC1=CC[C@@H](CC1)[C@@](C)(CCC=C(C)C)O</chem>
D40	Farnesol	<u>C₁₅H₂₆O</u>	<chem>CC(=CCCC(=CCCC(=CCO)C)C)C</chem>
D41	nerol	<u>C₁₀H₁₈O</u>	<chem>CC(=CCC/C(=C\CO)/C)C</chem>

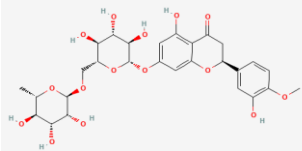
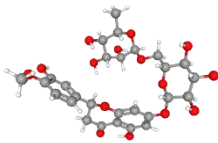
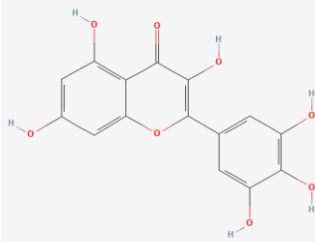
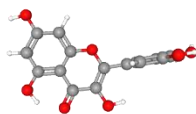
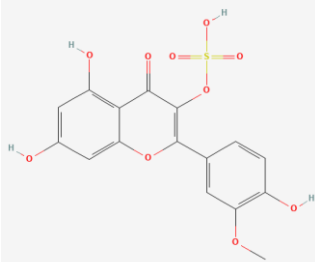
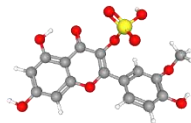
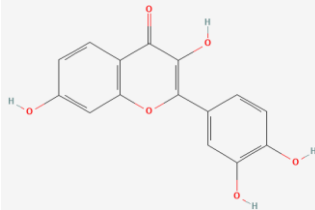
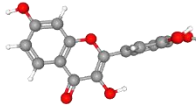
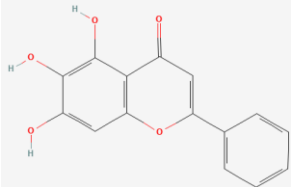
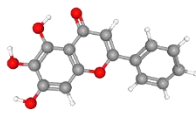
Lampiran 2 Struktur 2D dan 3D Ligan Uji dan Ligan Alami

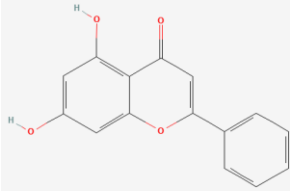
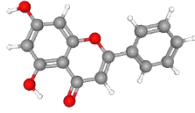
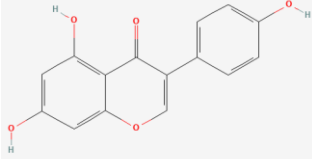
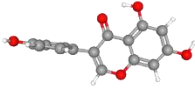
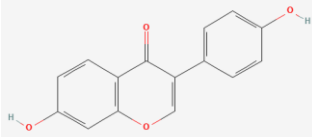
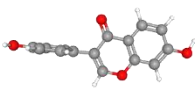
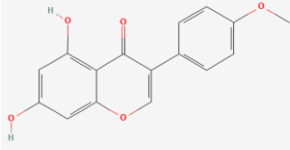
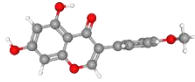
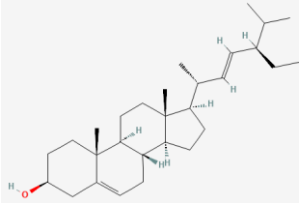
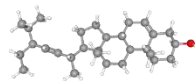
Kode senyawa	Struktur 2D	Rumus senyawa
Ligan alami		
D2		
D3		
D4		

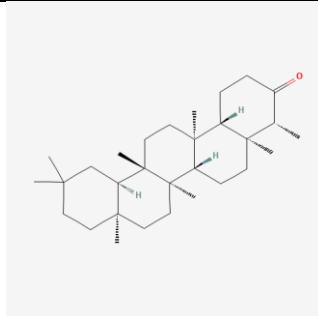
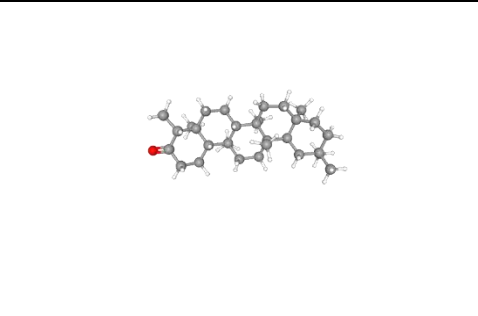
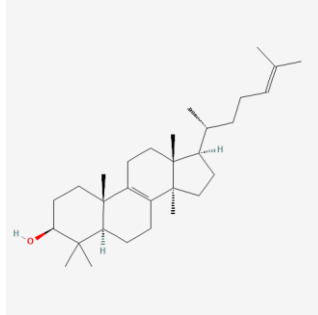
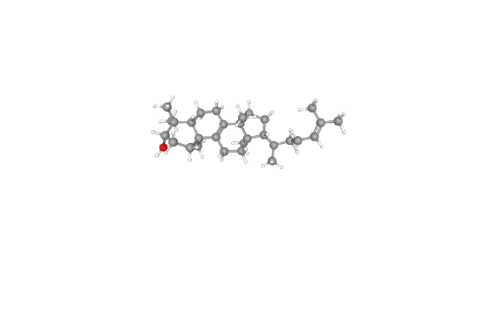
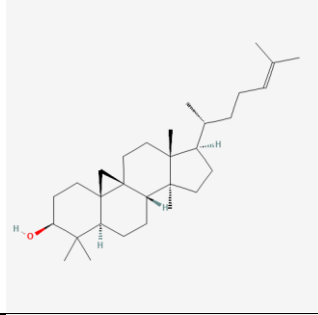
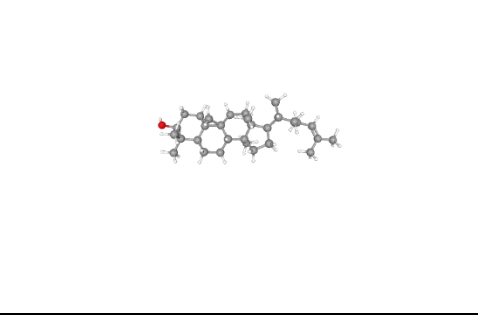
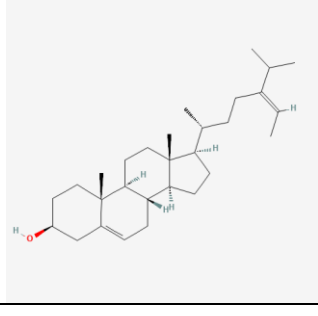
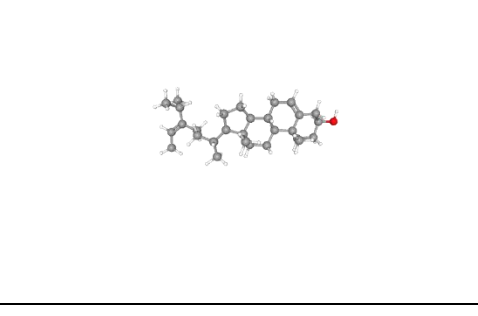
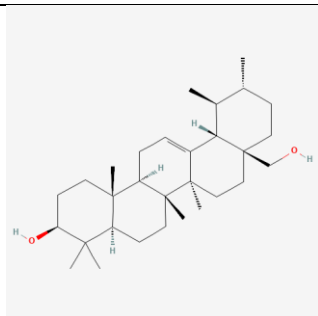
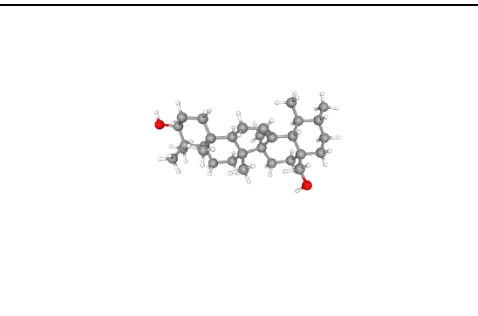
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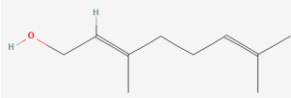
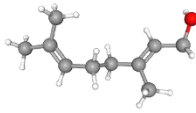
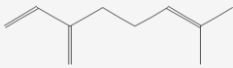
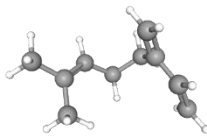
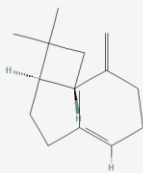
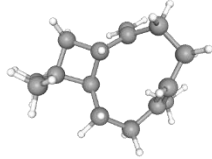
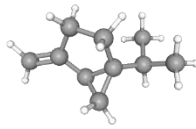
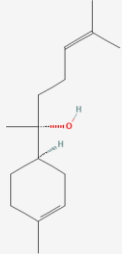
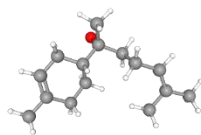
D9	 <chem>CC1(C)C=CC(O)C1</chem>	
D10	 <chem>CC1(C)C2CCC1C2O</chem>	
D11	 <chem>CC(C)C1=CC2CCC(C1)C2</chem>	
D12	 <chem>CC1=CC2(C)C(=O)OC2C1C3=CC=C(C=C3)O</chem>	
D13	 <chem>CC(C)CC[C@H]1C[C@@H]2[C@@H]3C[C@H](O)CC[C@]34C=C[C@H]5CC[C@@H]1[C@]2(C)CC[C@@H]45</chem>	

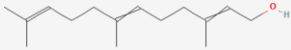
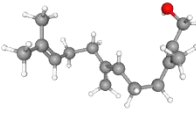
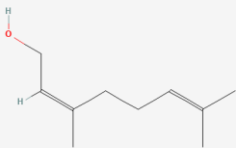
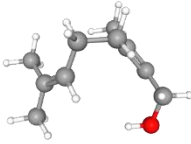
D14	 Chemical structure of a flavonoid derivative. It features a central chromone core with a 4-hydroxyphenyl group attached at the 3-position. The structure includes several hydroxyl groups and a carbonyl group.	 3D ball-and-stick model of the flavonoid derivative, showing the spatial arrangement of atoms and the orientation of the 4-hydroxyphenyl group.
D15	 Chemical structure of a flavonoid derivative. It features a central chromone core with a 3,4-dihydroxyphenyl group attached at the 3-position. The structure includes several hydroxyl groups and a carbonyl group.	 3D ball-and-stick model of the flavonoid derivative, showing the spatial arrangement of atoms and the orientation of the 3,4-dihydroxyphenyl group.
D16	 Chemical structure of a flavonoid derivative. It features a central chromone core with a 4-hydroxyphenyl group attached at the 3-position. The structure includes several hydroxyl groups and a carbonyl group.	 3D ball-and-stick model of the flavonoid derivative, showing the spatial arrangement of atoms and the orientation of the 4-hydroxyphenyl group.
D17	 Chemical structure of a complex flavonoid derivative. It features a central chromone core with multiple hydroxyl groups and a 4-hydroxyphenyl group attached at the 3-position. The structure includes several hydroxyl groups and a carbonyl group.	 3D ball-and-stick model of the complex flavonoid derivative, showing the spatial arrangement of atoms and the orientation of the 4-hydroxyphenyl group.
D18	 Chemical structure of a flavonoid derivative. It features a central chromone core with a 4-hydroxyphenyl group attached at the 3-position. The structure includes several hydroxyl groups and a carbonyl group.	 3D ball-and-stick model of the flavonoid derivative, showing the spatial arrangement of atoms and the orientation of the 4-hydroxyphenyl group.

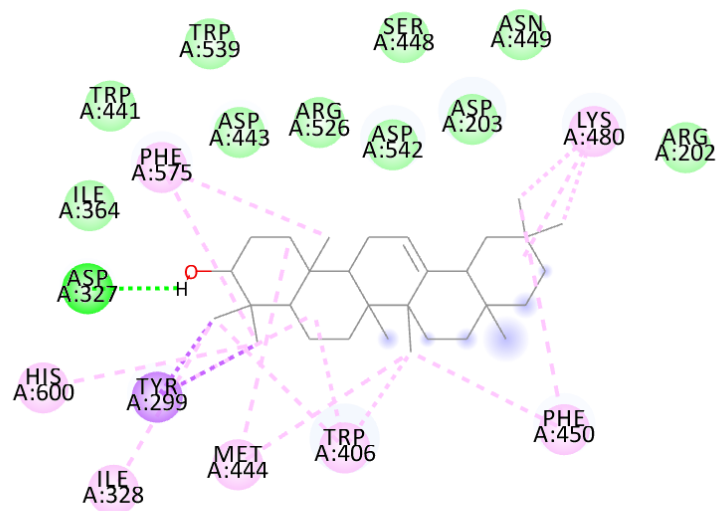
D19		
D20		
D21		
D22		
D23		

D24	 <chem>Oc1cc(O)c2c(c1)oc(=O)c(c2)C3=CC=CC=C3</chem>	
D25	 <chem>Oc1cc(O)c2c(c1)oc(=O)c(c2)C3=CC=C(C=C3)O</chem>	
D26	 <chem>Oc1cc(O)c2c(c1)oc(=O)c(c2)C3=CC=C(C=C3)O</chem>	
D27	 <chem>COc1ccc(cc1)C2=C3C(=O)C(=C(C=C3)O)C=C(C2)O</chem>	
D28	 <chem>CC(C)C=C[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O)C)C</chem>	

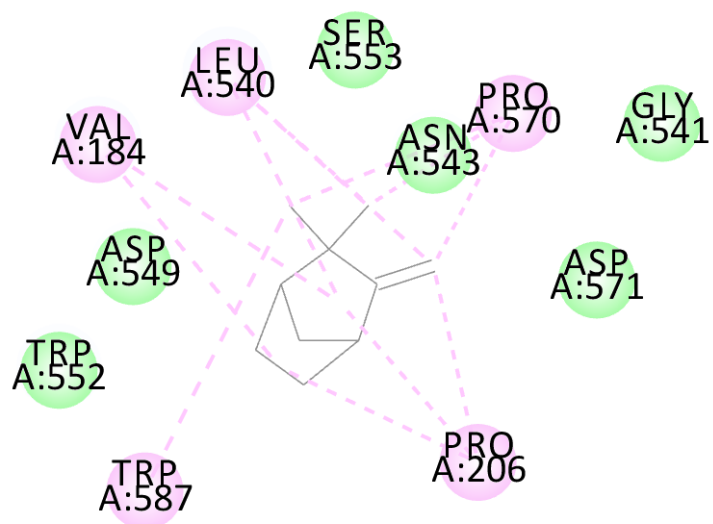
D29		
D30		
D31		
D32		
D33		
D34		

D35	 <chem>CC(C)=CCCO</chem>	
D36	 <chem>CC(C)=CC=CC(C)C</chem>	
D37	 <chem>CC1(C)C(C)(C)C(C)(C)C(C)C1=C</chem>	
D38	 <chem>CC1(C)C(C)C=C1</chem>	
D39	 <chem>CC1(C)C(C)C(C)C(C)C1=C</chem>	

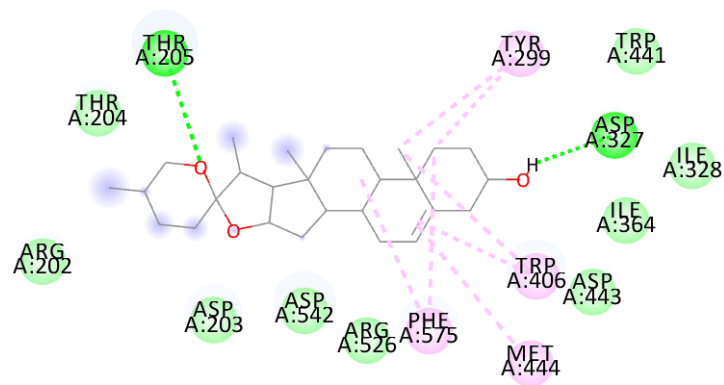
D40	 <chem>CC(C)=CC(C)CC(C)=CC(C)CC(C)=CCO</chem>	
D41	 <chem>CC(C)=CC(C)CC(C)=CC(C)=CCO</chem>	

Lampiran 3 Visualisasi Hasil Penambatan Molekul Ligan Uji

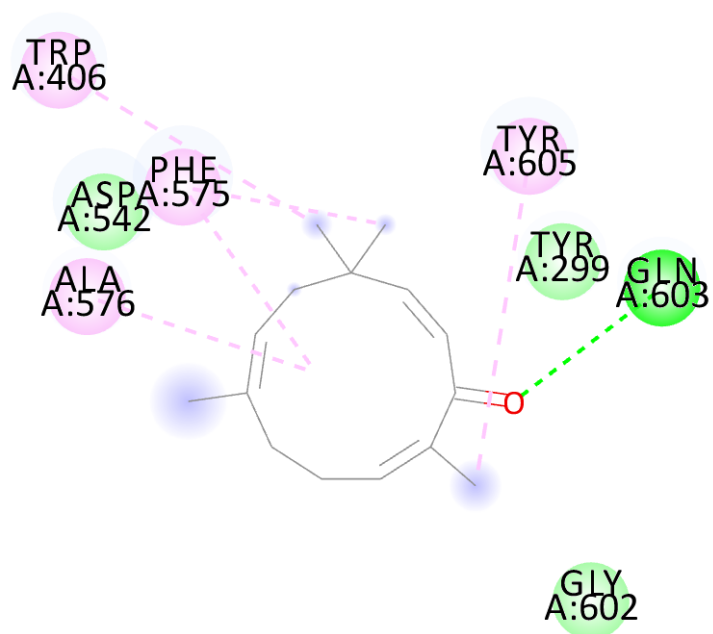
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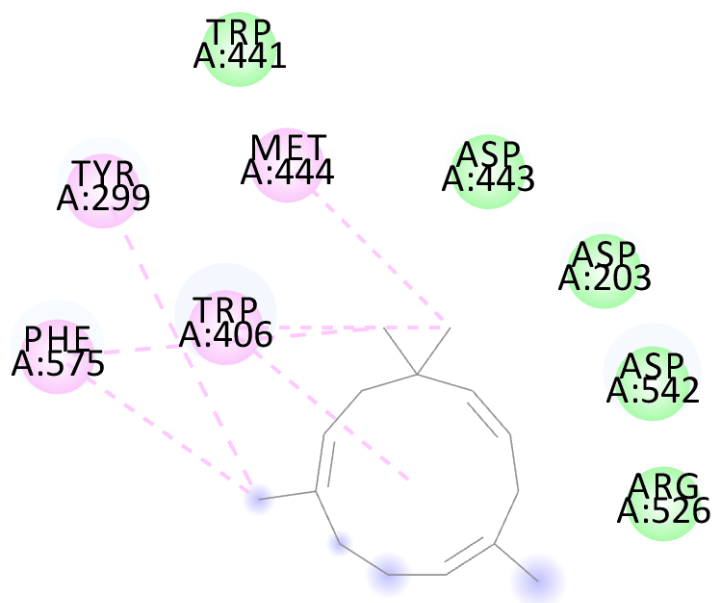
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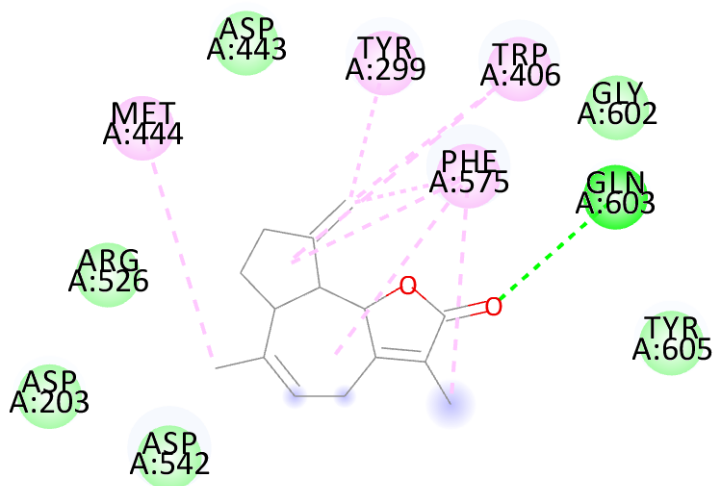
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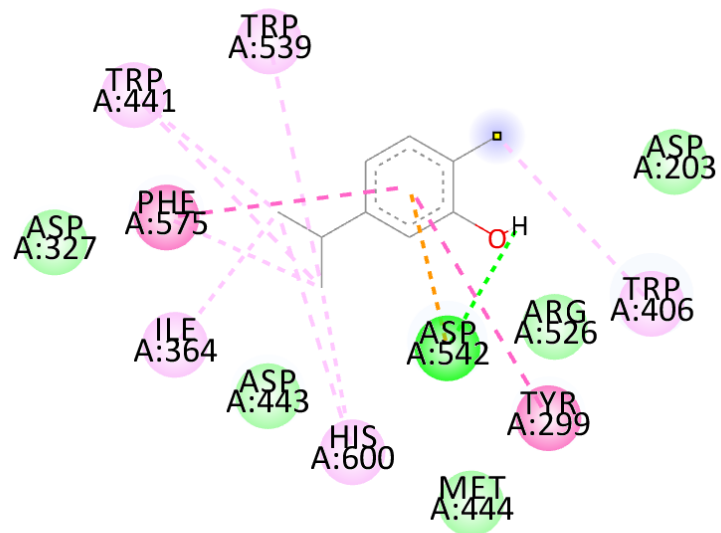
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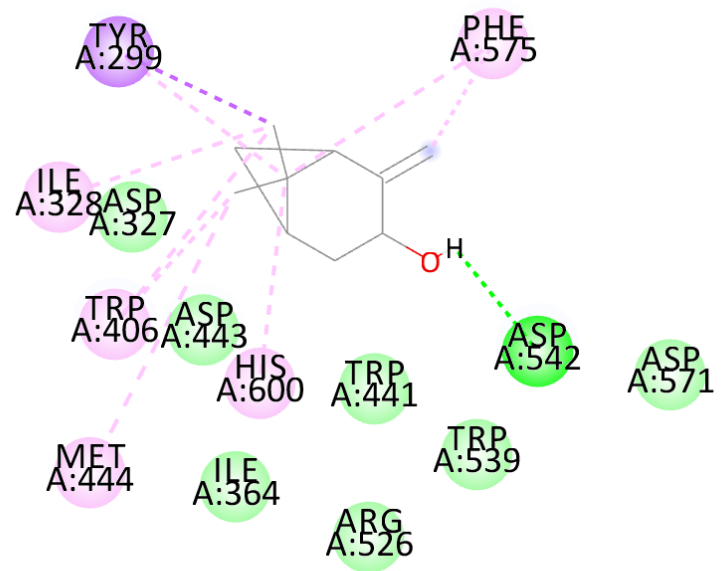
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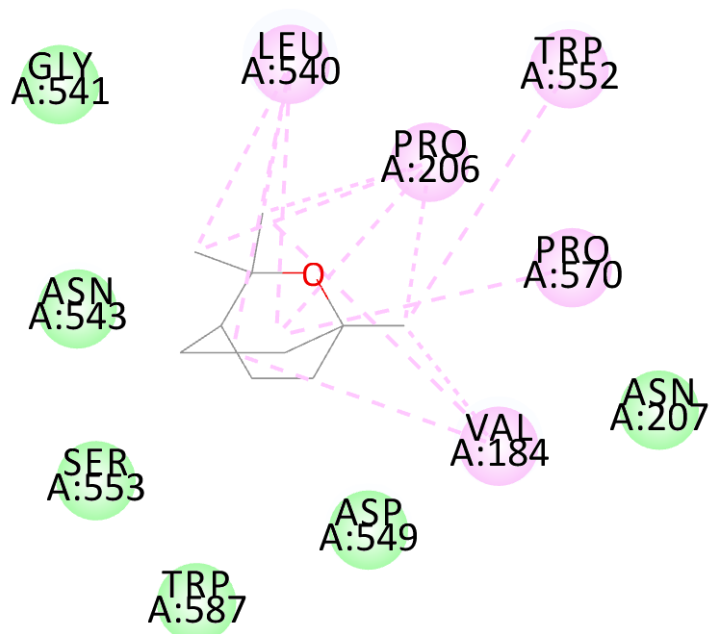
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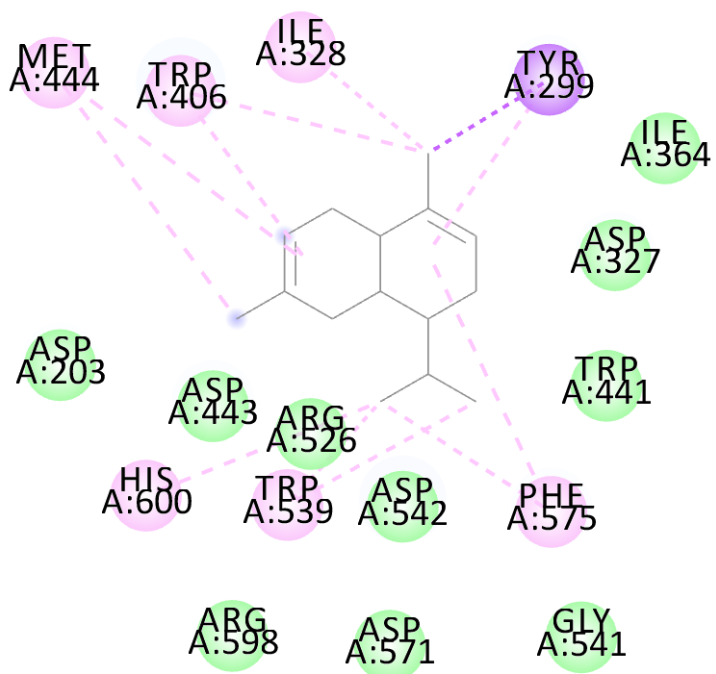
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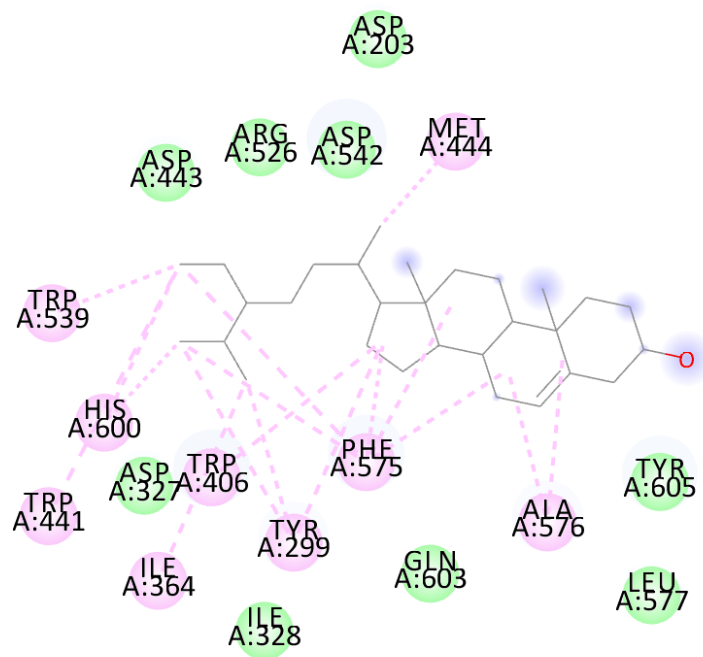
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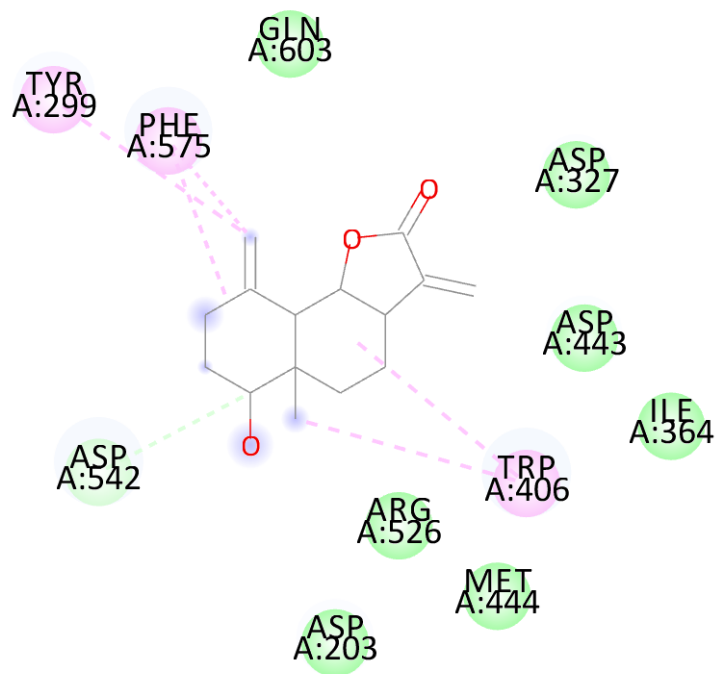
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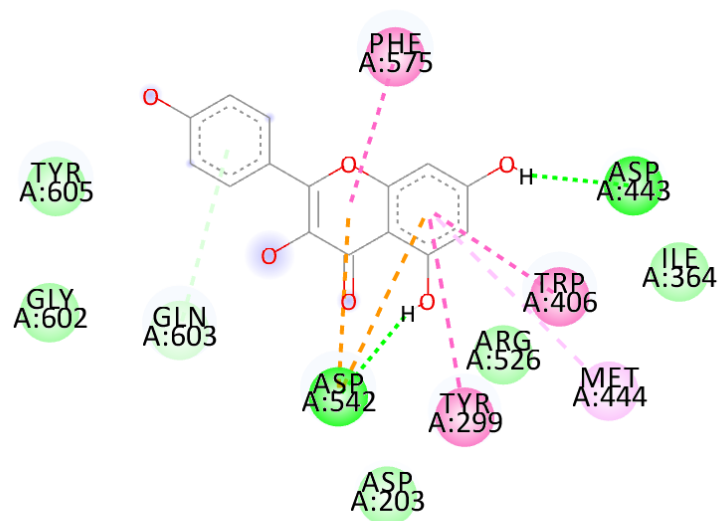
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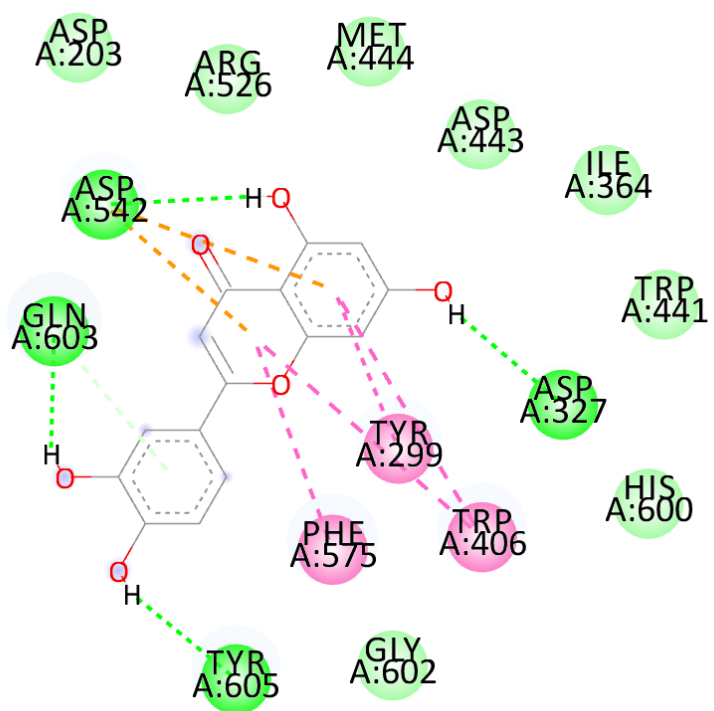
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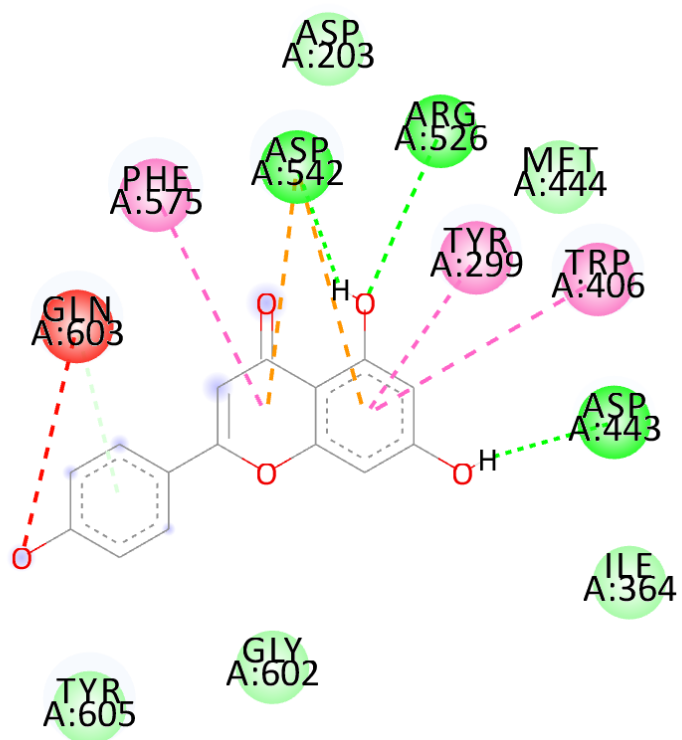
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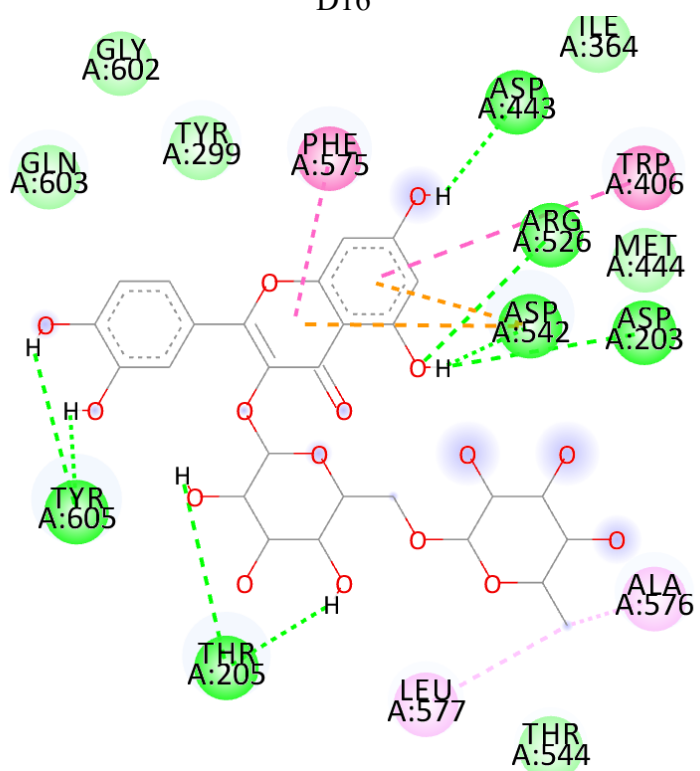
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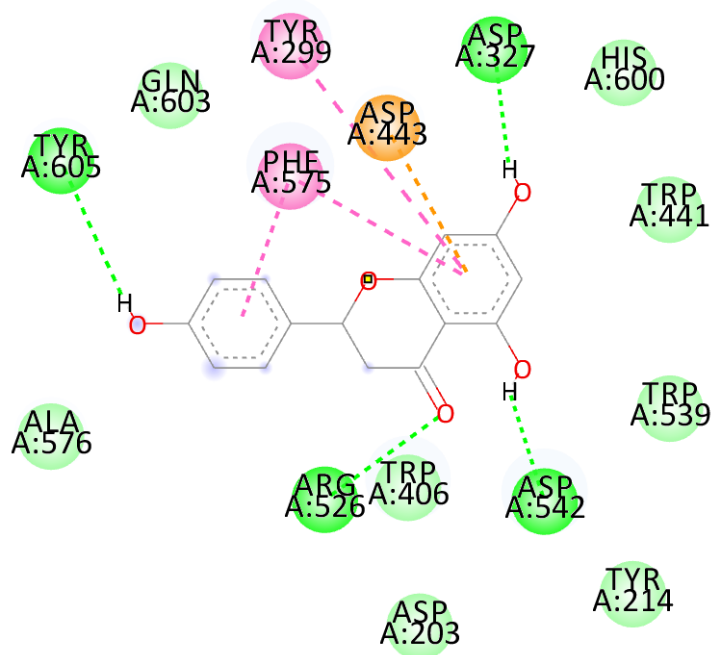
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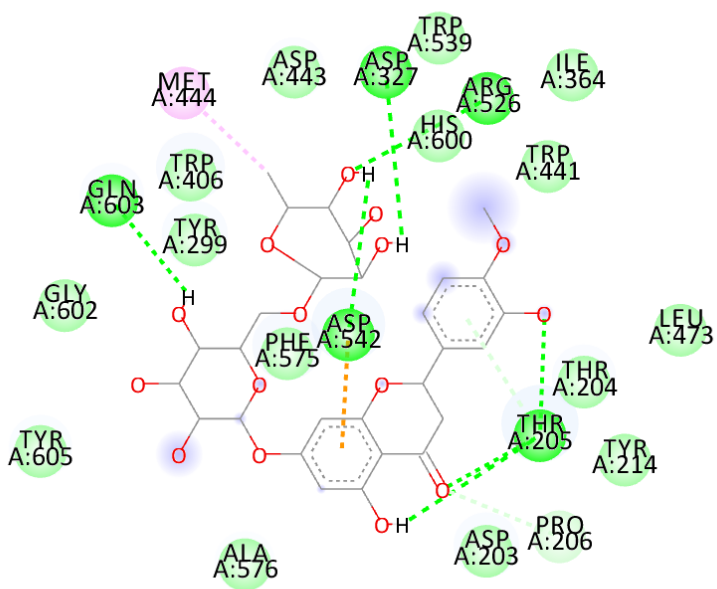
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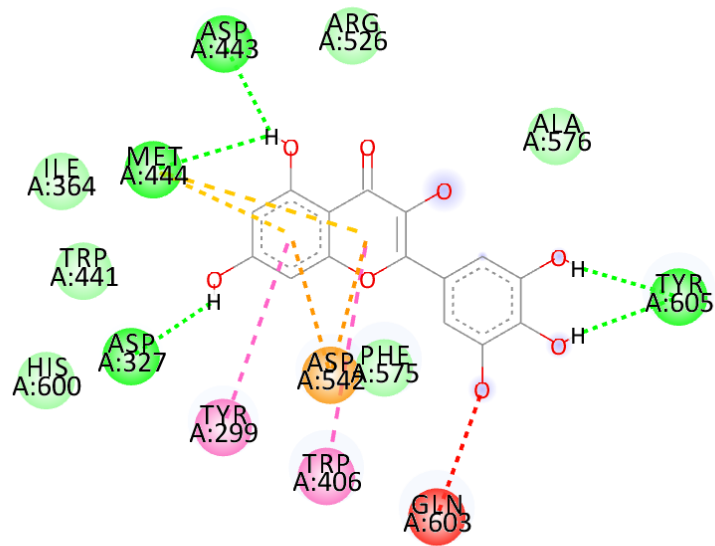
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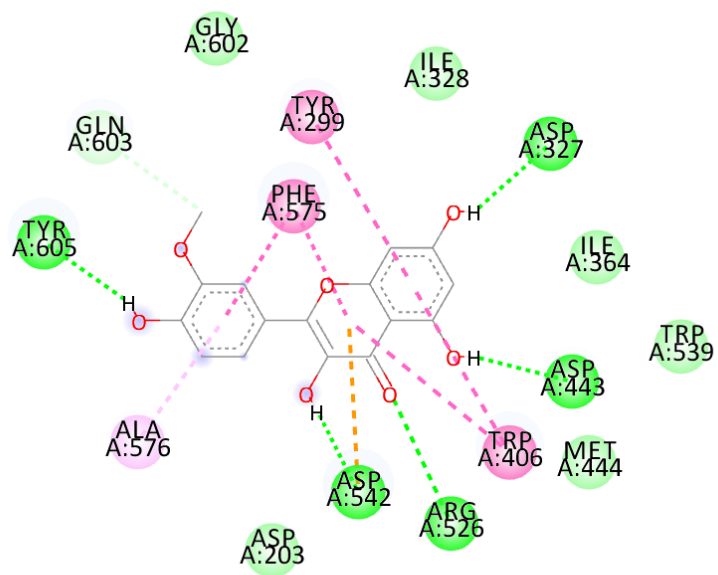
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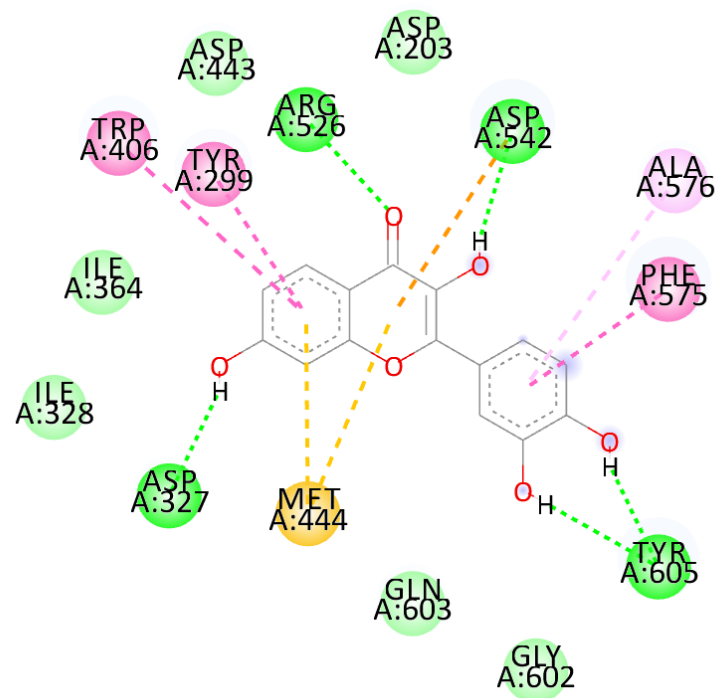
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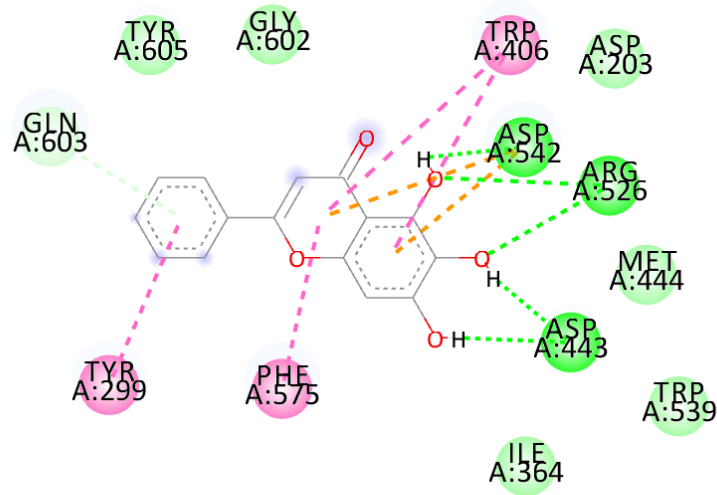
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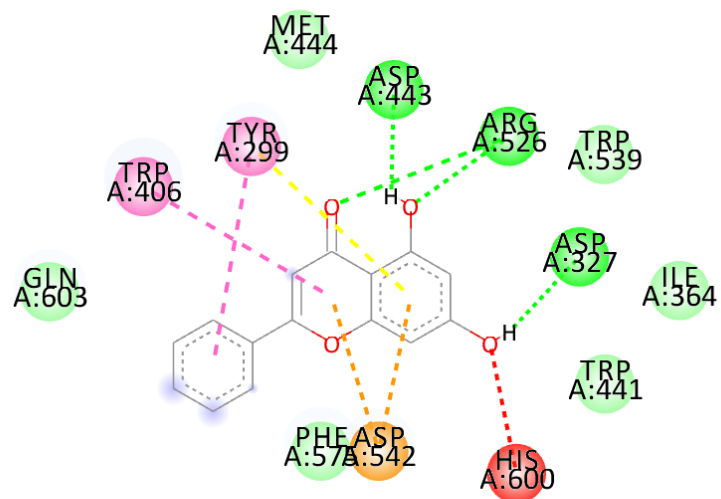
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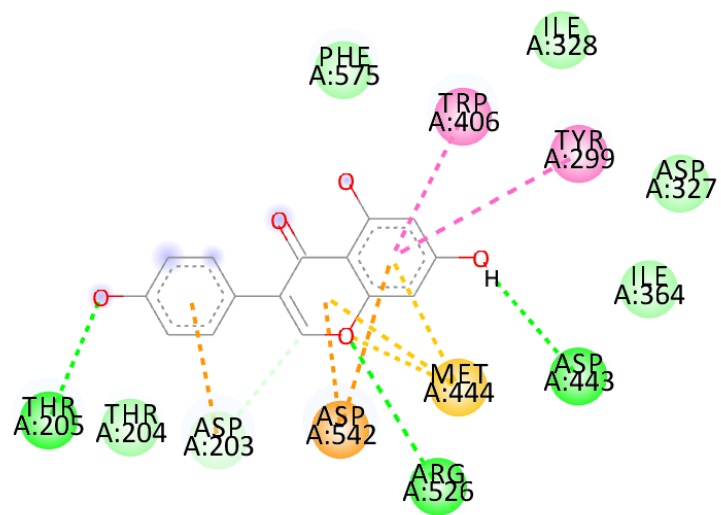
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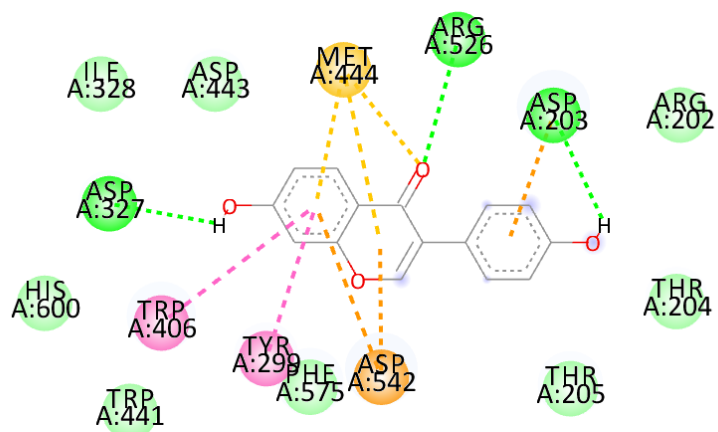
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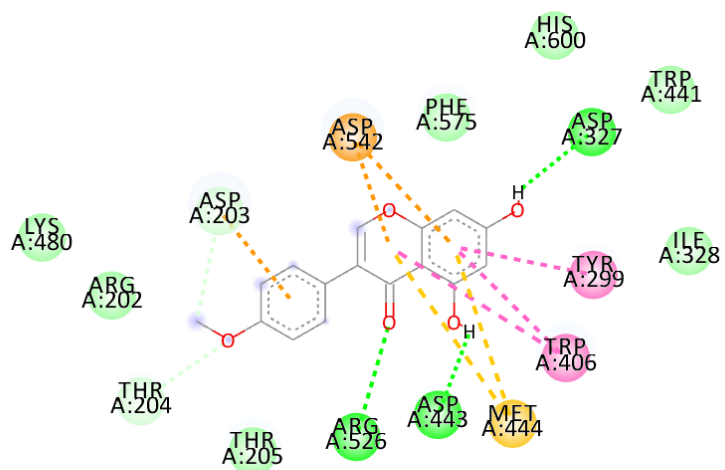
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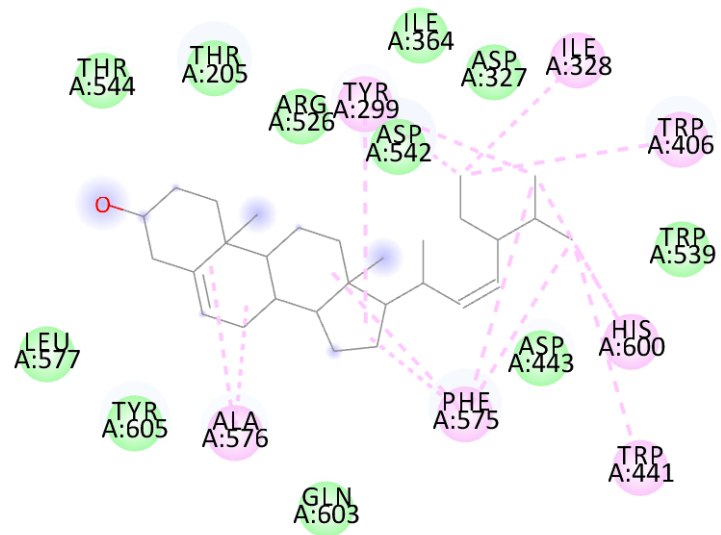
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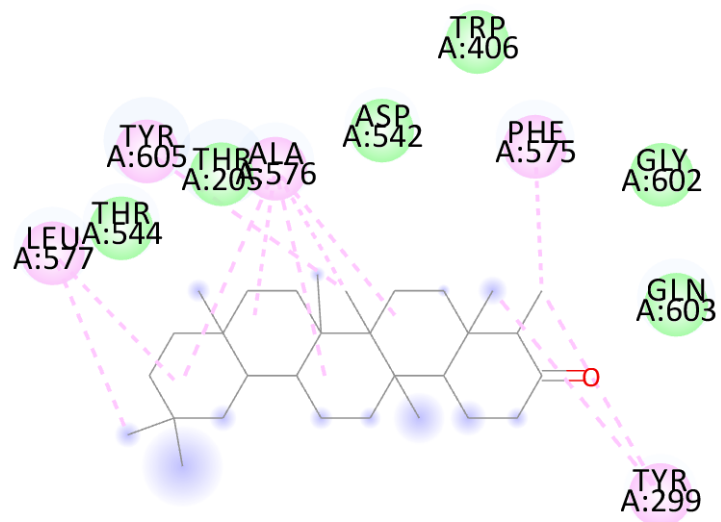
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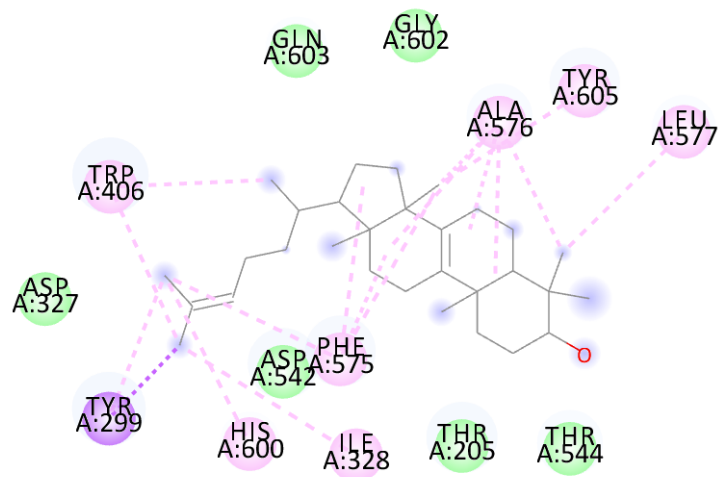
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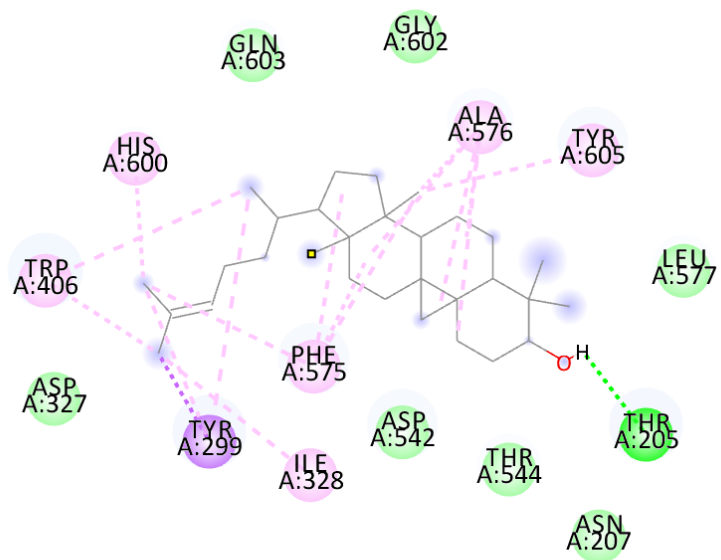
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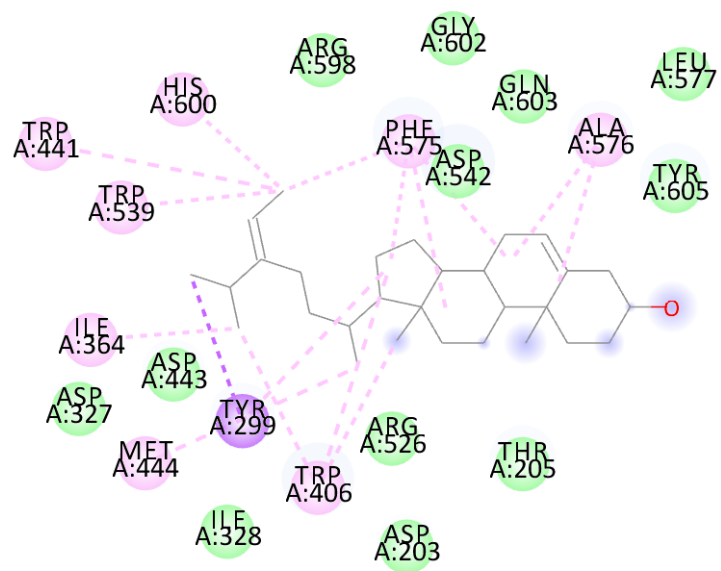
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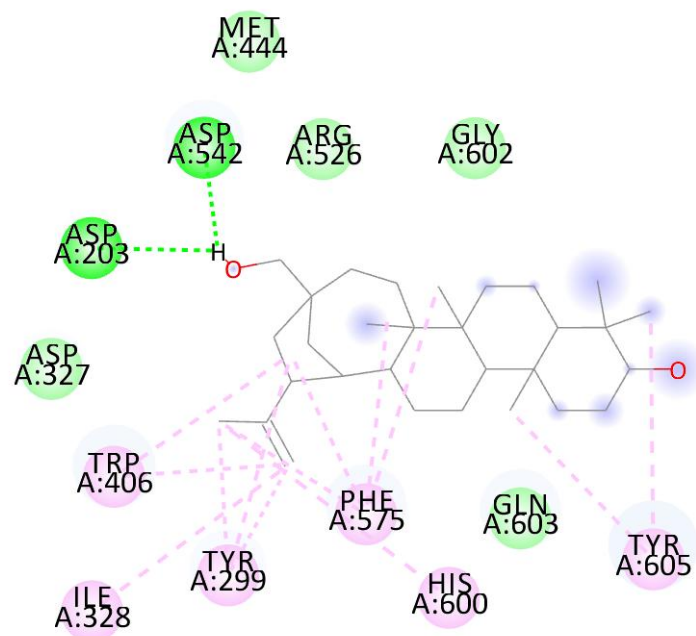
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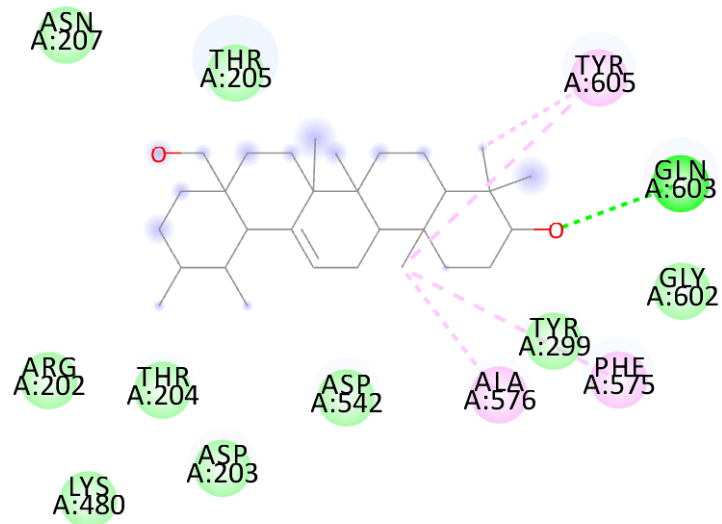
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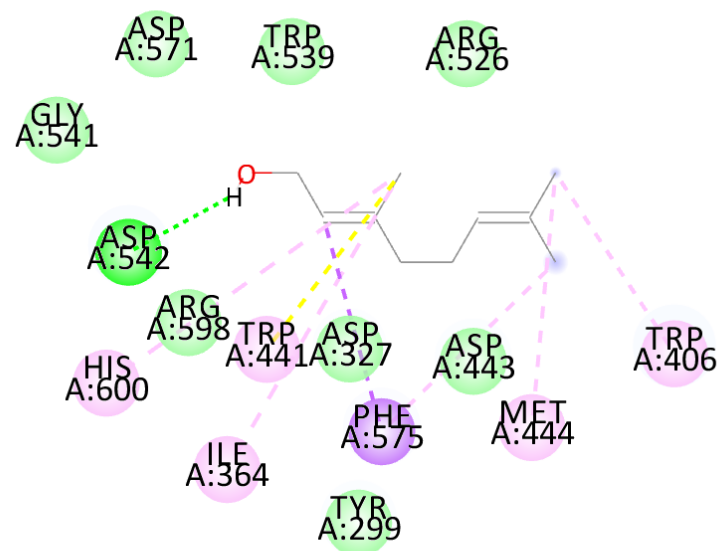
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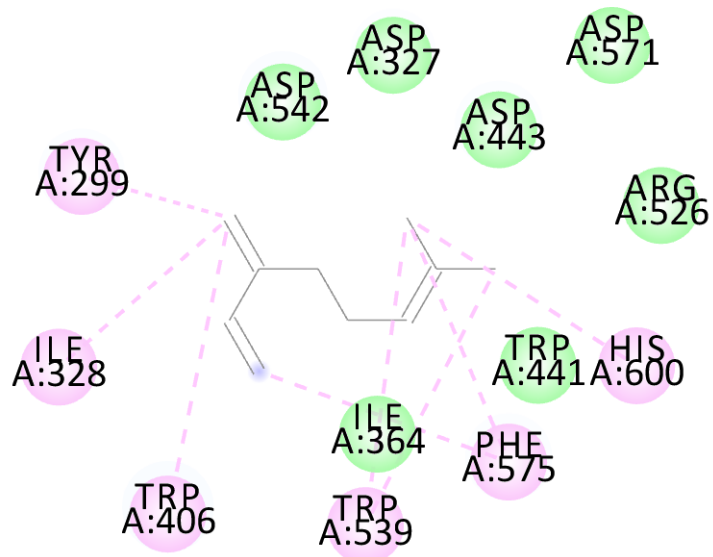
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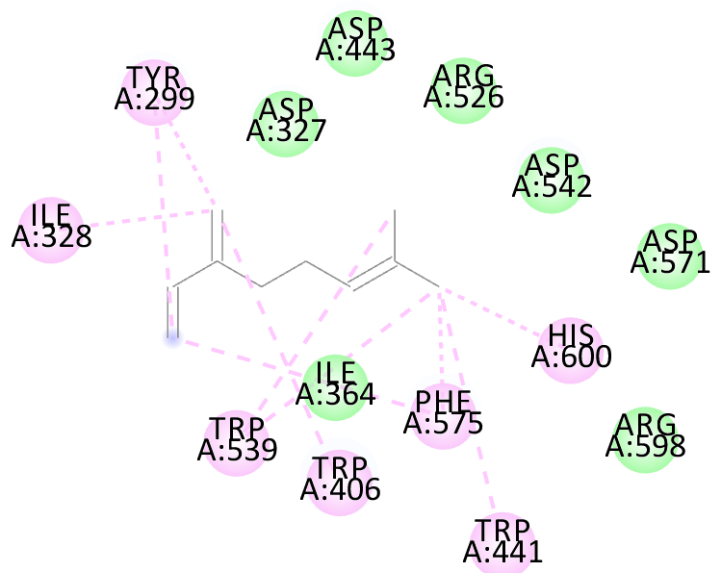
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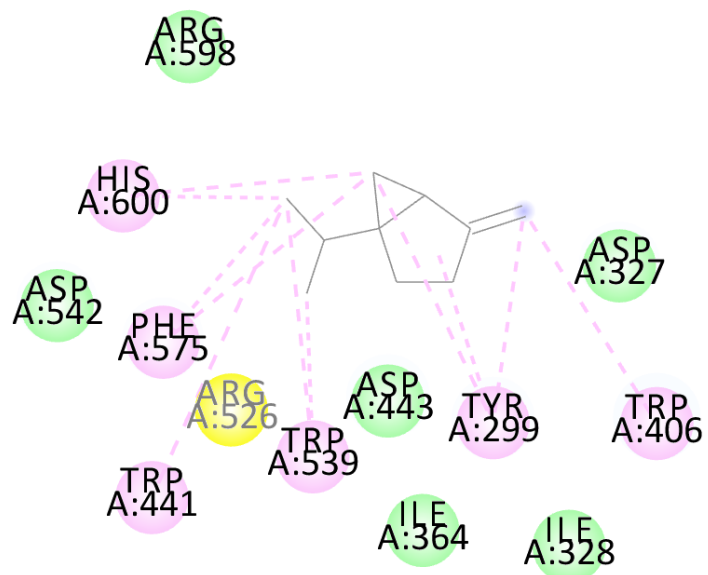
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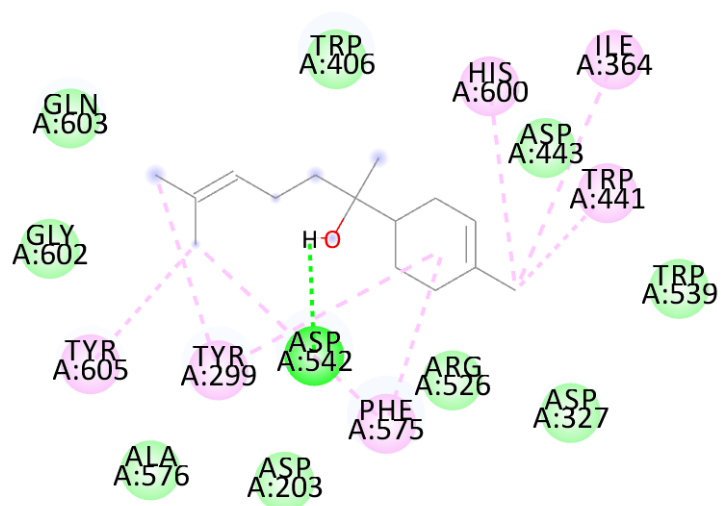
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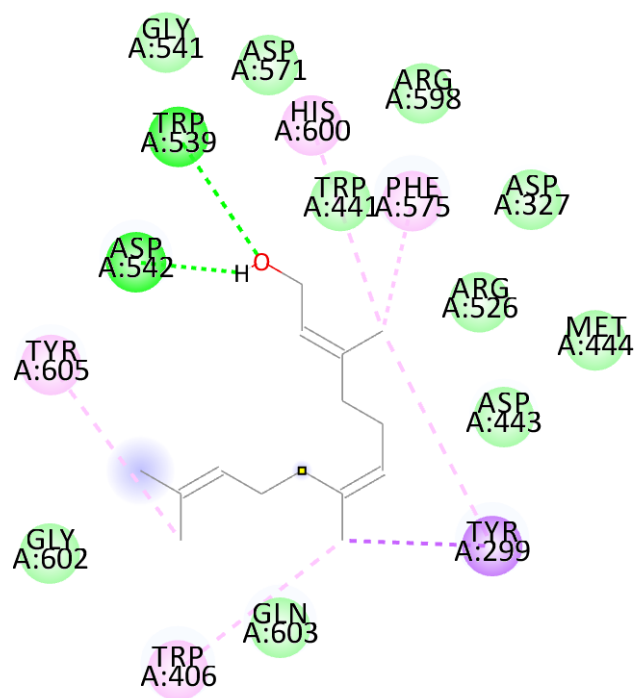
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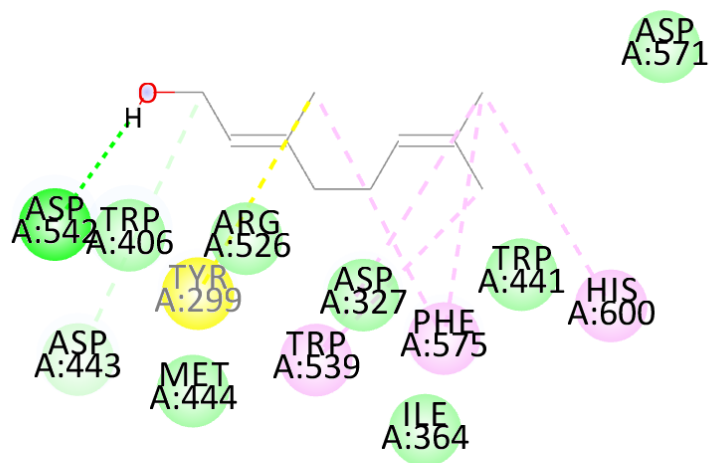
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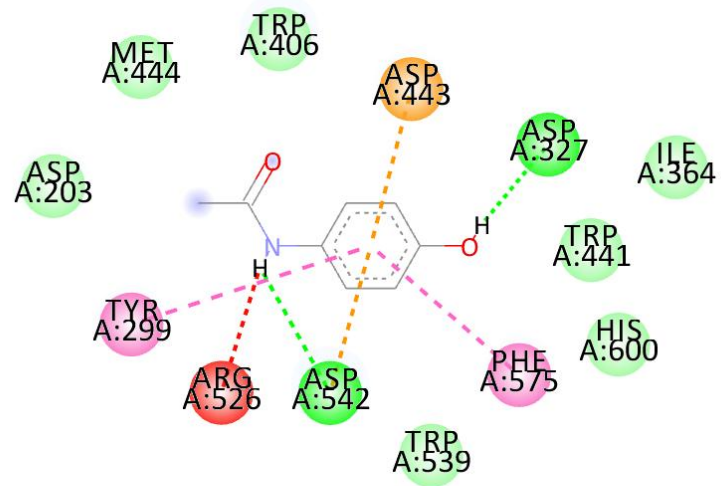
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D40



D41



D42

Lampiran 4 Hasil cek plagiarisme

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Lampiran 5 kartu bimbingan

No	Tanggal	Dosen Pembimbing	Topik	Disetujui	Aksi
1	13 Maret 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	pelatihan docking dan md	✓	 
1	25 April 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	laporan progress	✓	 
2	14 Maret 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	pemilihan komputer yang akan digunakan	✓	 
2	5 Mei 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	kemajuan 1 TA2	✓	 
3	22 April 2024	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	laporan kemajuan progress	✓	 
3	3 Mei 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	kemajuan 1	✓	 
4	5 Mei 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	Laporan Kemajuan TA2	✓	 
4	20 Mei 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	memilih ligan uji untuk lanjutan tahap MD	✓	 
5	2 Juni 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	konfirmasi kembali ligan uji yang akan dilanjutkan tahap MD	✓	 
5	21 Mei 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	laporan data docking	✓	 
6	21 Juni 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	konfirmasi ligan uji yang akan dilanjutkan tahap MD	✓	 
		M.Si.			
4	5 Mei 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	Laporan Kemajuan TA2	✓	 
4	20 Mei 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	memilih ligan uji untuk lanjutan tahap MD	✓	 
5	2 Juni 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	konfirmasi kembali ligan uji yang akan dilanjutkan tahap MD	✓	 
5	21 Mei 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	laporan data docking	✓	 
6	21 Juni 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	konfirmasi ligan uji yang akan dilanjutkan tahap MD	✓	 
6	16 Juni 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	konsultasi progres MD	✓	 
7	18 Juni 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	laporan hasil MD	✓	 
7	3 Juni 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	kemajusn 2 TA2	✓	 
8	30 Juni 2025	Dr. apt. Fauzan Zein Muttaqin, M.Si.	konfirmasi hasil MD	✓	 
8	1 Juli 2025	Dr.apt. Deden Indra Dinata, S.Si, M.Si.	hasil dan pembahasan	✓	 

Lampiran 6 Curriculum vitae



VIDIANA DIMAS ALAMANDA

FARMASI

KONTAK

+62-8965-5005-243

vdimasalamanda@gmail.com

Jl.Karang Asih No.35

<https://www.instagram.com/dimasssal>

PENDIDIKAN

2018-2021
SMK CIPTA SKILL

- Jurusan Farmasi

2021-2025
UNIVERSITAS BHAKTI KENCANA

- Sarjana Farmasi
- GPA: 3.12 / 4.0

SKILLS

- Peracikan Obat
- Pemahaman Dasar Kefarmasian
- Pelayanan Resep Dokter
- Manajemen Penyetoran Obat
- Komunikasi
- Kerjasama Tim
- Manajemen Waktu

• PROFILE

Saya adalah lulusan Sarjana Farmasi Universitas Bhakti Kencana (2025) dengan IPK 3.12. Memiliki pengalaman magang di Puskesmas Puter dalam bidang pelayanan kefarmasian, edukasi pasien, dan pengelolaan obat. Aktif dalam kegiatan penelitian dan kewirausahaan dengan prestasi Juara 1 Lomba Program Kreativitas Mahasiswa (PKM) serta berhasil lolos pendanaan Program Pembinaan Mahasiswa Wirausaha (P2MW) melalui inovasi pupuk cair organik dari sampah sisa makanan.

Memiliki ketertarikan pada bidang farmasi, pelayanan kesehatan, serta pengembangan produk berbasis penelitian. Terbiasa bekerja secara tim maupun individu, mampu berkomunikasi dengan baik, serta memiliki semangat belajar dan beradaptasi dengan lingkungan kerja baru.

• PENGALAMAN

Magang di puskesmas UPT puskesmas puter - Menerima resep dari dokter - Skrining resep - Penyiapan resep - PIO - Stock of name Juara 1 Lomba PKM PROGRAM KREATIF MAHASISWA - Mengolah sampah sisa makanan menjadi pupuk cair organik - Mengurangi limbah sampah sisa makanan - Menjadikan sampah organik berguna bagi masyarakat Lolos Pendanaan P2MW PROGRAM PEMBINAAN MAHASISWA WIRAUSAHA - Berhasil mengembangkan produk pupuk cair organik hasil penelitian PKM menjadi program wirausaha dengan potensi komersial.	2020 2023 2023
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