

LAMPIRAN

Lampiran 1 Senyawa Terpenoid Genus Amomum

Kode	Nama Senyawa	Golongan senyawa	Spesies	SMILES
LA	Tamoxifen	Trifeniletilena	Sintetis	<chem>CC/C(=C(\C1=CC=CC=C1)/C2=CC=C(C=C2)OCCN(C)C)/C3=CC=CC=C3</chem>
T1	(2E,6E)-8-hydroxy-2,6-dimethylocta-2,6-dienal	Monoterpenoid	<i>A. tsao-ko</i>	<chem>C/C(=C\CO)/CC/C=C(\C)/C=O</chem>
T2	Maximumin D			<chem>[H][C@]1(CC(=O)C2=C1CC[C@@]1([H])C(C)(C)C(=O)CC[C@]21C)[C@]1(O)COC(=O)C1</chem>
T3	(2E,6E)-3,7-dimethyl-8-oxoocta-2,6-dien-1-yl acetate	Monoterpenoid	<i>A. tsao-ko</i>	<chem>C/C(=C\COCC(=O)C)/CC/C=C(\C)/C=O</chem>
T4	(2E)-decenol	Monoterpenoid	<i>A. tsao-ko</i>	<chem>CCCCCCCC/C=C/C O</chem>
T5	Geraniol	Monoterpenoid	<i>A. tsao-ko</i>	<chem>CC(=CCC/C(=C/C O)/C)C</chem>
T6	Trans-2-Decenal	Monoterpenoid	<i>A. tsao-ko</i>	<chem>CCCCCC/C=C/C(=O)O</chem>
T7	Geraniol acetate	Monoterpenoid	<i>A. tsao-ko</i>	<chem>CC(=CCC/C(=C/C OC(=O)C)/C)C</chem>
T8	4-hydroxy-benzaldehyde	Monoterpenoid	<i>A. tsao-ko</i>	<chem>C1=CC(=CC=C1C=O)O</chem>
T9	3-hydroxy-4-methoxybenzaldehyde	Monoterpenoid	<i>A. tsao-ko</i>	<chem>COC1=C(C=C(C=C1)C=O)O</chem>
T10	3-(1-hydroxy-2-methylpropan-2-yl)phenol	Monoterpenoid	<i>A. kravanh</i>	<chem>CC(C)(CO)C1=CC(=CC=C1)O</chem>
T11	2-(hydroxymethyl)-5-	Monoterpenoid	<i>A. kravanh</i>	<chem>CC(C)C1=CC(O)=C(CO)C=C1O</chem>

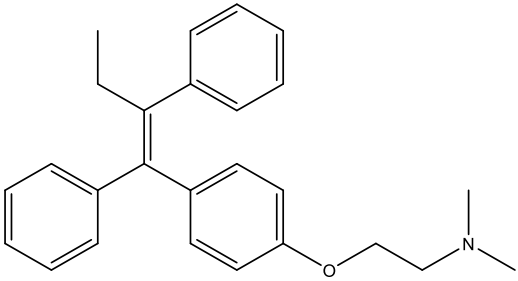
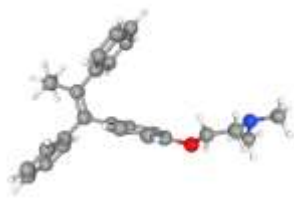
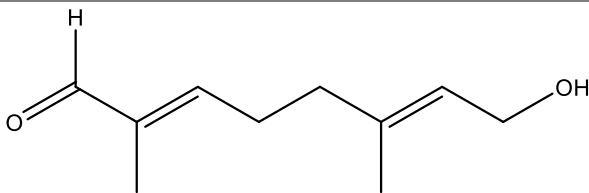
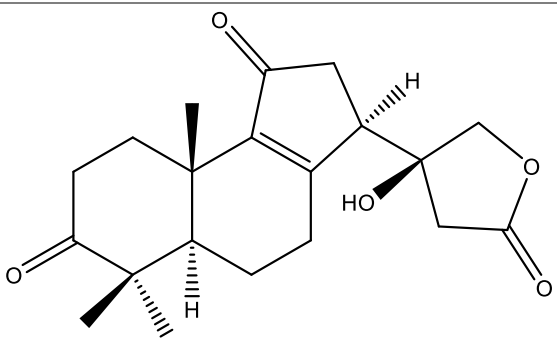
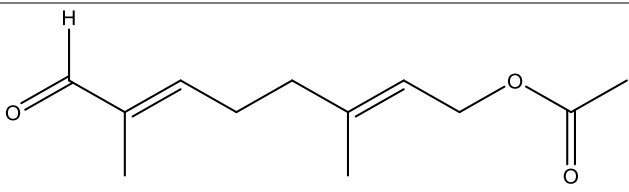
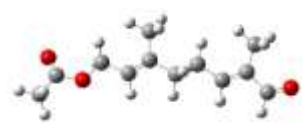
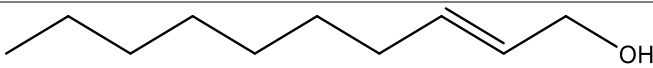
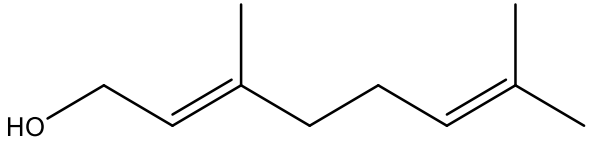
	isopropylbenzene-1,4-diol			
T12	Isotsaokoin	Monoterpenoid	<i>A. tsao-ko</i>	<chem>C1C[C@@H]2[C@H](C1)C(=CC[C@H]2O)C=O</chem>
T13	Tsaokoin	Monoterpenoid	<i>A. tsao-ko</i>	<chem>C1C[C@H]2[C@H](C1)C(=CC[C@H]2O)C=O</chem>
T14	(3aR,4R,7aS)-7-(hydroxymethyl)-2,3,3a,4,5,7a-hexahydro-1H-inden-4-ol	Monoterpenoid	<i>A. tsao-ko</i>	<chem>C1C[C@@H]2[C@H](C1)C(=CC[C@H]2O)CO</chem>
T15	(3aS,4R,7aR)-7-(hydroxymethyl)-2,3,3a,4,5,7a-hexahydro-1H-inden-4-ol	Monoterpenoid	<i>A. tsao-ko</i>	<chem>C1C[C@H]2[C@H](C1)C(=CC[C@H]2O)CO</chem>
T16	(3aR,7R,7aS)-7-hydroxy-2,3,3a,6,7,7a-hexahydro-1H-indene-4-carbaldehyde	Monoterpenoid	<i>A. tsao-ko</i>	<chem>C1C[C@H]2[C@H](C1)C(=CC[C@H]2O)C=O</chem>
T17	(3aS,7R,7aS)-7-hydroxy-2,3,3a,6,7,7a-hexahydro-1H-indene-4-carbaldehyde	Monoterpenoid	<i>A. tsao-ko</i>	<chem>[H]C(=O)C1=CC[C@@H](O)[C@@]2([H])CCC[C@]12[H]</chem>
T18	Nerolidol	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>CC(=CCCC(=CCC(C)(C=C)O)C)C</chem>
T19	(3S,8S,E)-3,7,11-trimethyldodeca-1,6,10-triene-3,8-diol	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>CC(C)=CC[C@H](O)C(C)=C\CC[C@](C)(O)C=C</chem>
T20	Pygmul	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>C[C@]12CCC[C@]([C@@H]1)[C@]</chem>

				<chem>H][C@@H](CC2)C(C)(C)O)O(C)O</chem>
T21	Spathulenol	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>C[C@@]1(CC[C@@H]2[C@@H]1[C@@H]3[C@H](C3(C)C)CCC2=C)O</chem>
T22	Caryophyllene oxide	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>C[C@@]12CC[C@@H]3[C@H](CC3(C)C)C(=C)CC[C@H]1O2</chem>
T23	Axanthiol A	Sesquiterpenoid	<i>A. villosum</i> <i>var</i>	<chem>[H][C@@]12[C@@H](O)[C@@H](CC[C@@]1(C)CC[C@@]2(C)O)C(C)O</chem>
T24	(2S,5R)-2-methyl-2-(4-oxopentyl)-5-(prop-1-en-2-yl)cyclohexan-1-one	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>CC(=O)CCC[C@@]1(C)CC[C@H](CC1=O)C(C)=C</chem>
T25	Isodrimenin	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>C[C@]12CCCC([C@@H]1CCC3=C2C(=O)OC3)(C)C</chem>
T26	Confertifolin	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>C[C@]12CCCC([C@@H]1CCC3=C2COC3=O)(C)C</chem>
T27	(9aS)-6,6,9a-trimethyl-4,5,5a,6,7,8,9,9a-octahydronaphtho[1,2-c]furan-3(1H)-one	Sesquiterpenoid	<i>A. xanthioides</i>	<chem>CC1(C)CCC[C@@]2(C)C1CC[C@@]1(O)OC(=O)C=C21</chem>
T28	Elettarin B	Sesquiterpenoid	<i>E. cardamomum</i>	<chem>CC1(C)CCC[C@@]2(C)C1CC[C@@]1(O)COC(=O)C=C21</chem>
T29	Elettarin A	Sesquiterpenoid	<i>E. cardamomum</i>	<chem>CC1(C)CCC[C@@]2(C)C1CC[C@]1(O)COC(=O)C=C21</chem>
T30	Amoxanthin A	Diterpenoid	<i>A. xanthioides</i>	<chem>[H][C@@]1(CC2)C(C)(C)CCC[C@@]1(C)[C@H](/C=C/C(C)=O)C2=C</chem>

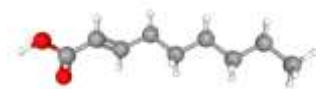
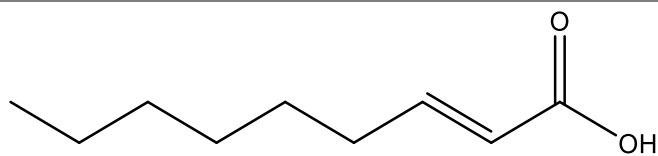
T31	Kravanhin A	Diterpenoid	<i>A. kravanh</i>	<chem>C[C@]12CC[C@@H](C([C@@H]1C(=O)[C@]3([C@@H]2CCC4=CC(=O)O[C@@H]43)C)(C)C)O</chem>
T32	Kravanhin B	Diterpenoid	<i>A. kravanh</i>	<chem>C[C@]12CCCC([C@@H]1CC(=O)[C@]3([C@@H]2CCC4=CC(=O)O[C@@H]43)C)(C)C</chem>
T33	Kravanhin C	Diterpenoid	<i>A. kravanh</i>	<chem>C[C@]12CCC(=O)C([C@@H]1CC(=O)[C@]3([C@@H]2CCC4=CC(=O)O[C@@H]43)C)(C)C</chem>
T34	Kravanhin D	Diterpenoid	<i>A. kravanh</i>	<chem>C[C@]12CCCC([C@@H]1CC(=O)[C@]3([C@@H]2CC=C(C3O)CCO)C)(C)C</chem>
T35	4-(2-((1S,4aR,5R,6S,8aR)-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylenedecahydronaphthalen-1-yl)ethyl)furan-2(5H)-one	Diterpenoid	<i>A. kravanh</i>	<chem>[H][C@]1(CCC2=CC(=O)OC2)C(=C)CC[C@@]2([H])[C@](C)(CO)[C@@H](O)CC[C@]12C</chem>
T36	Isocoronarin D	Diterpenoid	<i>A. maximum</i>	<chem>[H][C@@]1(C\C=C2/[C@@H](O)COC2=O)C2CCCC(C)(C)[C@]2([H])CC1=C</chem>
T37	Amomax A	Diterpenoid	<i>A. maximum</i>	<chem>[H][C@@]12CCC(=C)C(C(=O)CC3=CONC3=O)[C@@]1(C)CCCC2(C)C</chem>
T38	Ottensinin	Diterpenoid	<i>A. maximum</i>	<chem>[H][C@]1(CC2=COCC2=O)C(=C)CC[C@@]2([H])C(</chem>

				<chem>C)(C)CCC[C@]12C</chem>
T39	Coronarine E	Diterpenoid	<i>A. uliginosum</i>	<chem>[H][C@]1(\C=C\C2=COC=C2)C(=C)CC[C@]2([H])C(C)(C)CCC[C@]12C</chem>
T40	(E)-4-((4aR,8aS)-5,5,8a-trimethyl-2-methylenedecahydronaphthalen-1-yl)but-3-en-2-one	Diterpenoid	<i>A. uliginosum</i>	<chem>[H][C@]12CCC(=C)C(\C=C\C(C)=O)[C@@]1(C)CCCC2(C)C</chem>
T41	5-hydroxy-4-((E)-2-((4aS,8aS)-5,5,8a-trimethyl-2-methylenedecahydronaphthalen-1-yl)vinyl)furan-2(5H)-one	Diterpenoid	<i>A. uliginosum</i>	<chem>[H][C@@]12CCC(=C)C(\C=C\C3=CC(=O)OC3O)[C@@]1(C)CCCC2(C)C</chem>
T42	Vilosin	Diterpenoid	<i>A. uliginosum</i>	<chem>[H][C@@]12CCC(=C)C(\C=C\C3=CCOC3=O)[C@@]1(C)CCCC2(C)C</chem>
T43	Coronadiene	Diterpenoid	<i>A. tsaoko</i>	<chem>C[C@@]12C(CCC[C@@H]2CCC(O)=O)C(C)(C)CCC1</chem>
T44	Maximumin C	Diterpenoid	<i>A. maksimum</i>	<chem>[H][C@]1(CCC(=O)CC2=COC=CC2=O)C(C)(C)CCC[C@]1(C)CC(O)=O</chem>

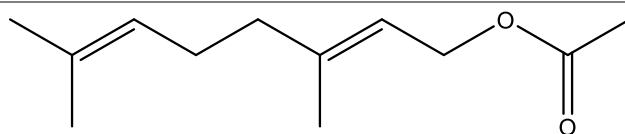
Lampiran 2 Visualisasi 2D dan 3D Senyawa Terpenoid Genus Amomum

KODE	STRUKTUR 2D	STRUKTUR 3D
LA	 tamoxifen	
T1	 (2E,6E)-8-hydroxy-2,6-dimethylocta-2,6-dienal	
T2	 maximumin D	
T3	 (2E,6E)-3,7-dimethyl-8-oxoocta-2,6-dien-1-yl acetate	
T4	 (E)-dec-2-en-1-ol	
T5	 Geraniol	

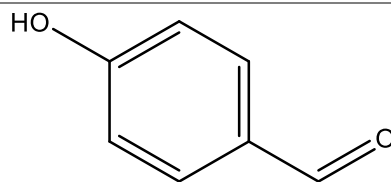
T6

*(E)*-non-2-enoic acid

T7

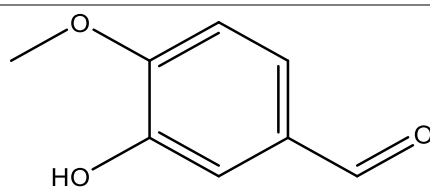
*(E)*-3,7-dimethylocta-2,6-dien-1-yl acetate

T8



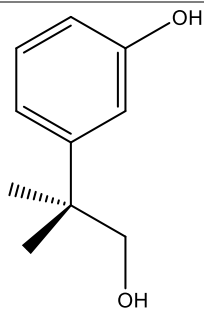
4-hydroxy-benzaldehyde

T9



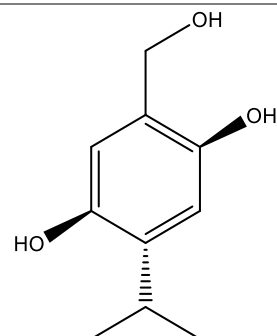
4-methoxy-3-hydroxy-benzaldehyde

T10

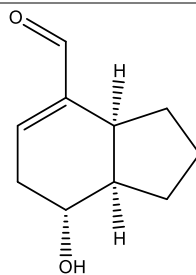


3-(1-hydroxy-2-methylpropan-2-yl)phenol

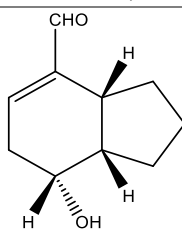
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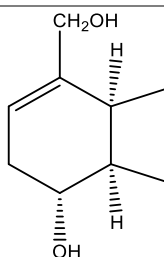
2-(hydroxymethyl)-5-isopropylbenzene-1,4-diol

T12

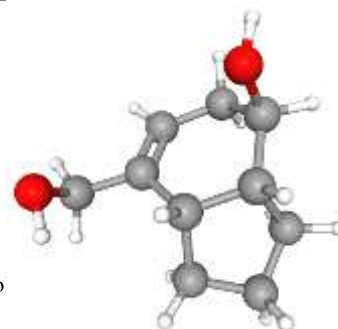
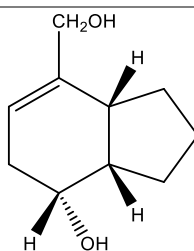
(3aS,7R,7aR)-7-hydroxy-2,3,3a,6,7,7a-hexahydro-1H-indene-4-carbaldehyde

**T13**

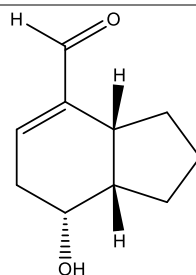
(3aR,7R,7aS)-7-hydroxy-2,3,3a,6,7,7a-hexahydro-1H-indene-4-carbaldehyde

**T14**

(3aR,4R,7aS)-7-(hydroxymethyl)-2,3,3a,4,5,7a-hexahydro-1H-inden-4-ol

**T15**

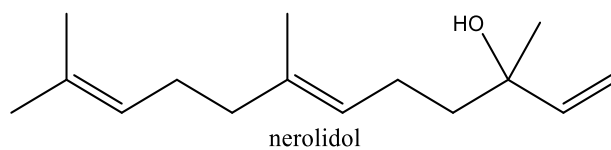
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**T16**

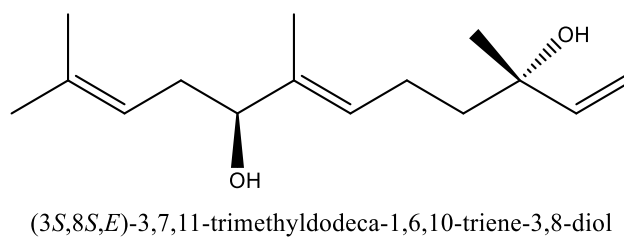
(3aR,7R,7aS)-7-hydroxy-2,3,3a,6,7,7a-hexahydro-1H-indene-4-carbaldehyde



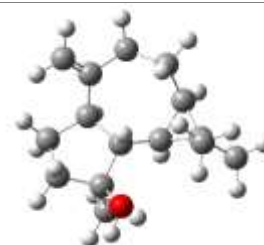
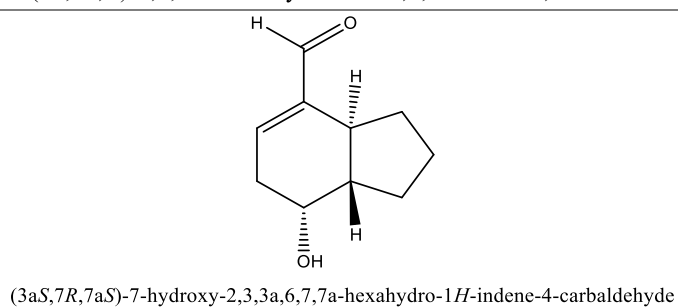
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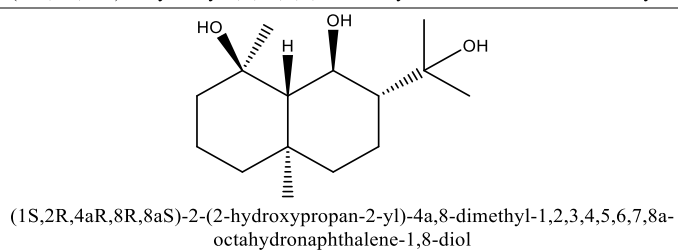
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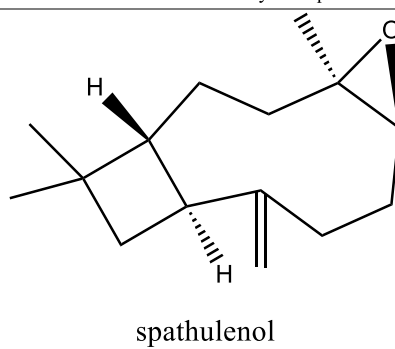
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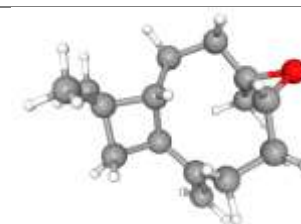
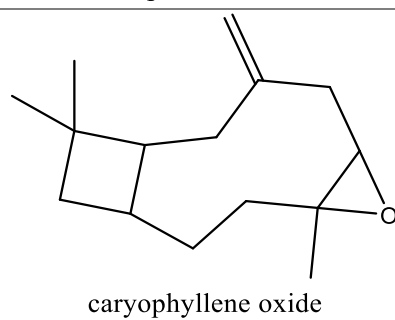
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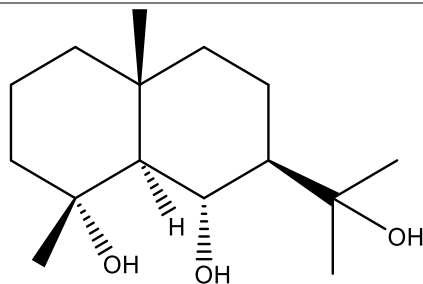
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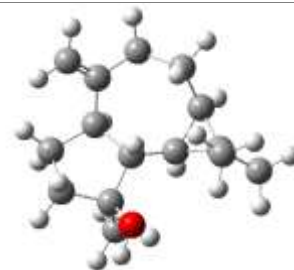
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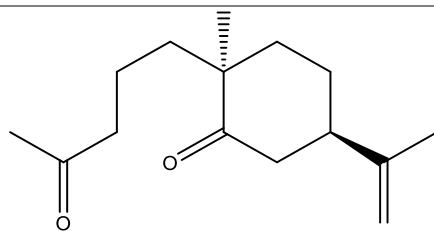
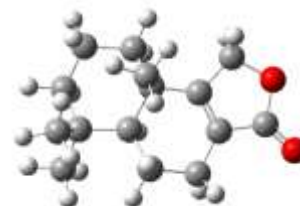
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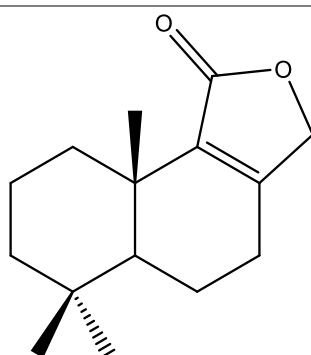
axanthiol A



T24

(2*S*,5*R*)-2-methyl-2-(4-oxopentyl)-5-(prop-1-en-2-yl)cyclohexan-1-one

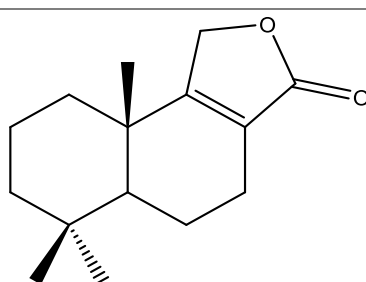
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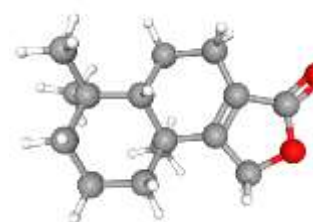
Isodrimenin



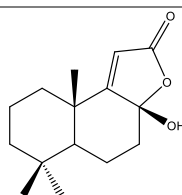
T26

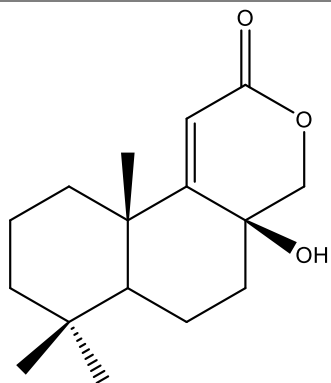


confertifolin

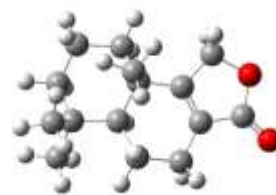
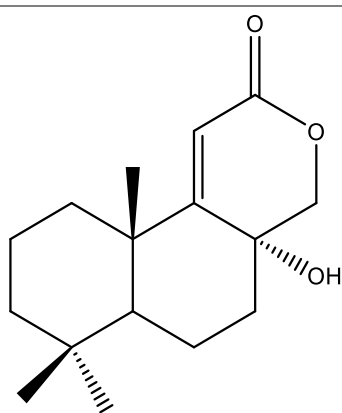


T27

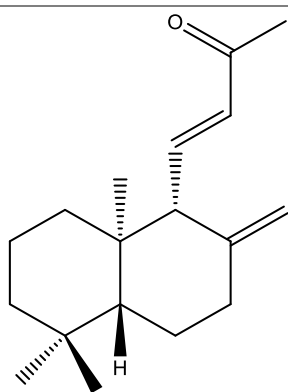
(3*aR*,9*aS*)-3*a*-hydroxy-6,6,9*a*-trimethyl-4,5,5*a*,6,7,8,9,9*a*-octahydronaphtho[2,1-*b*]furan-2(3*aH*)-one

T28

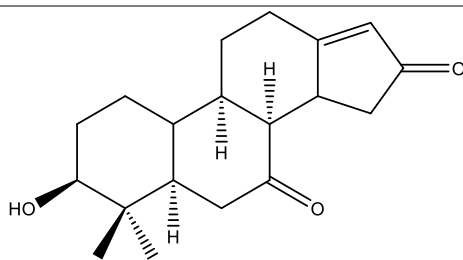
elettarin B

**T29**

elettarin A

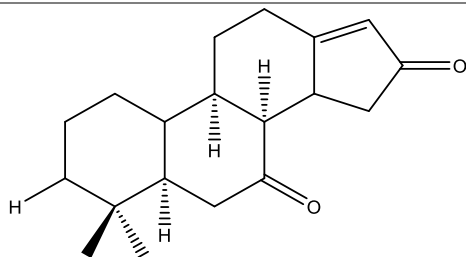
**T30**

amoxanthin A

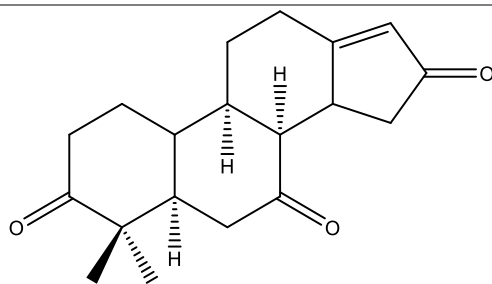
**T31**

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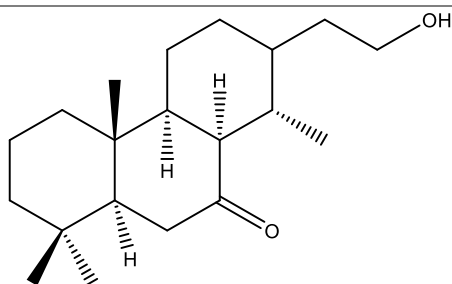


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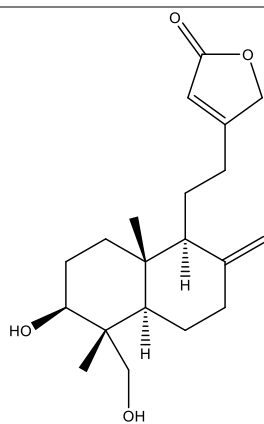
kravanhin B

**T33**

kravanhin C

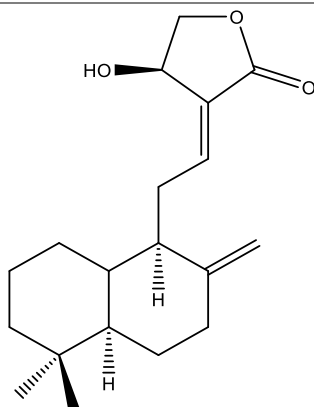
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kravanhin D

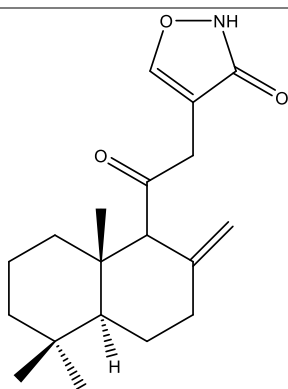
**T35**

4-(2-((1S,4aR,5R,6S,8aR)-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylenedecahydronaphthalen-1-yl)ethyl)furan-2(5H)-one

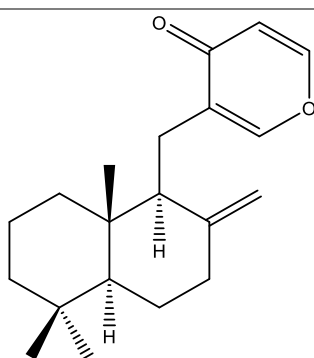


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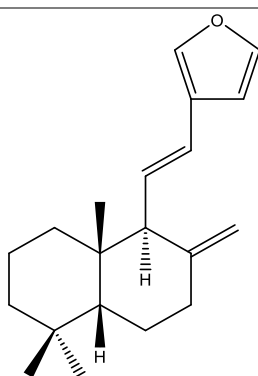
isocoronarin D

**T37**

amomax A

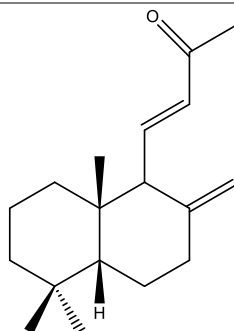
**T38**

ottensinin

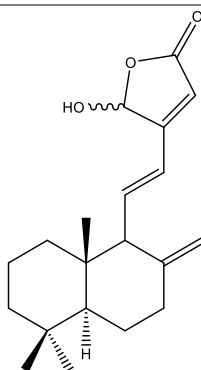
**T39**

coronarine E

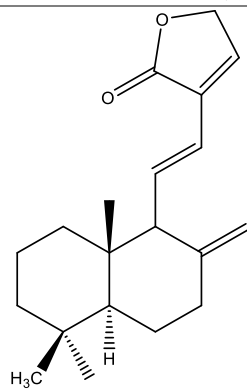


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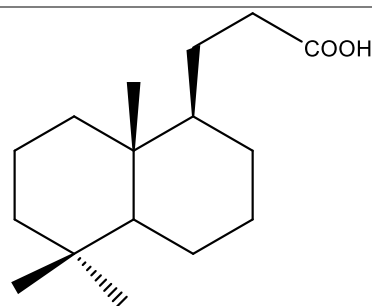
(*E*)-4-((4*aR*,8*aS*)-5,5,8*a*-trimethyl-2-methylenedecahydronaphthalen-1-yl)but-3-en-2-one

T41

5-hydroxy-4-((*E*)-2-((4*aS*,8*aS*)-5,5,8*a*-trimethyl-2-methylenedecahydronaphthalen-1-yl)vinyl)furan-2(*5H*)-one

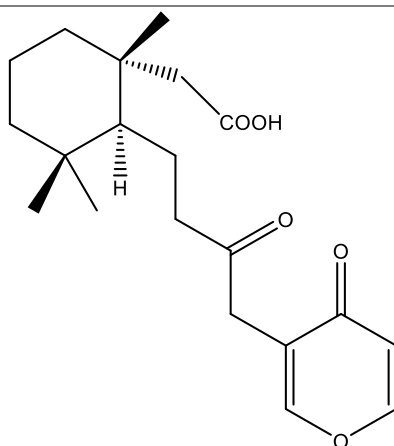
T42

vilosin

**T43**

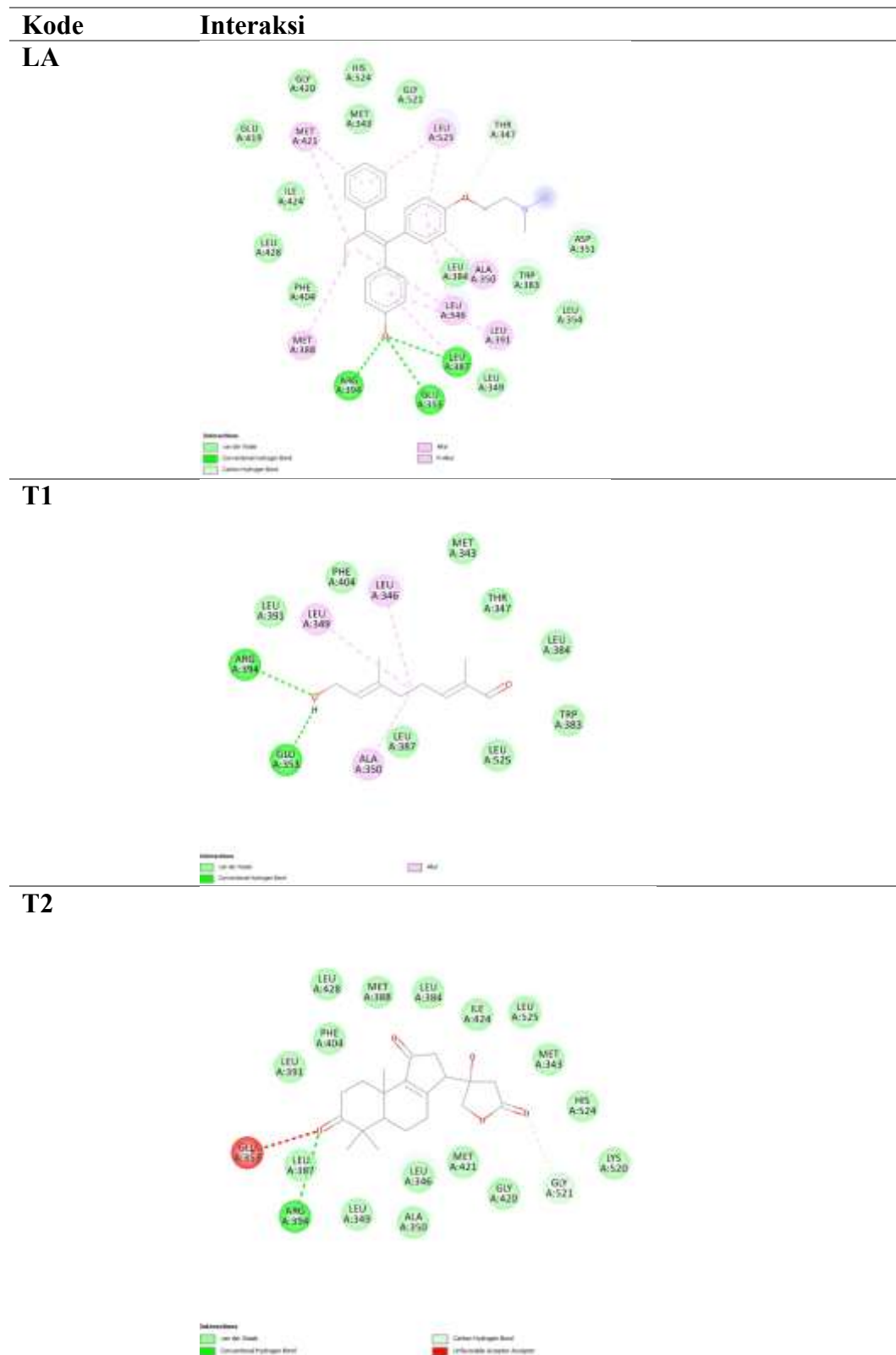
coronadiene



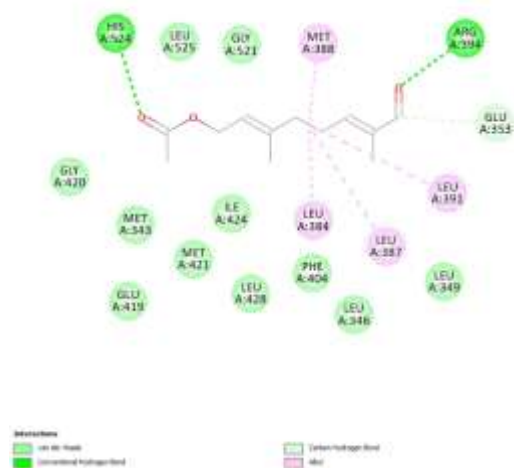
T44

maximumin C

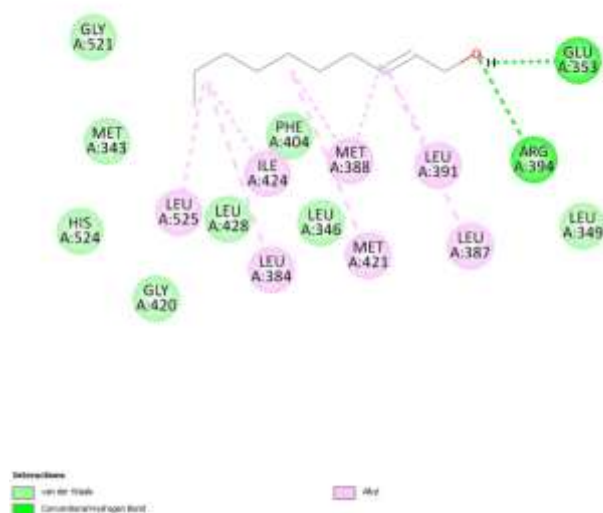
Lampiran 3 Visualisasi Interaksi Hasil Penambatan Molekul Ligan Uji



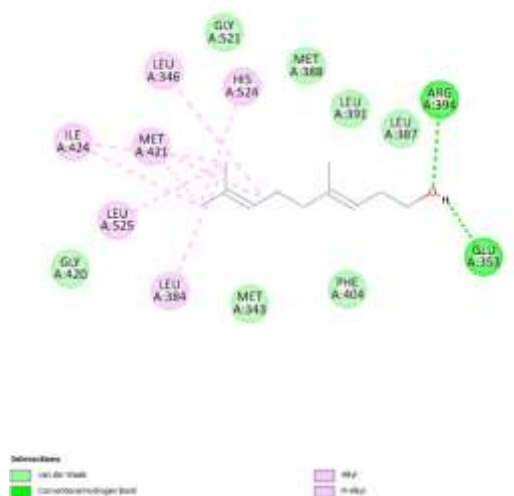
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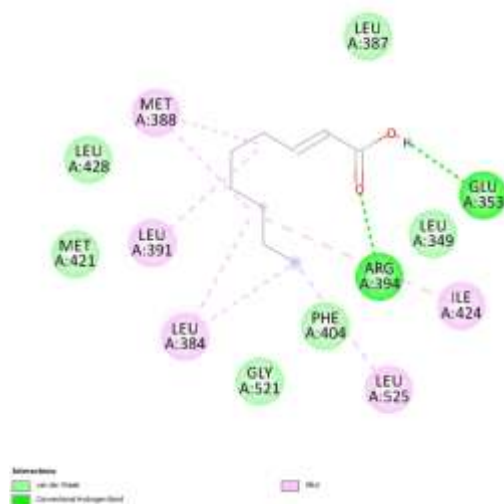
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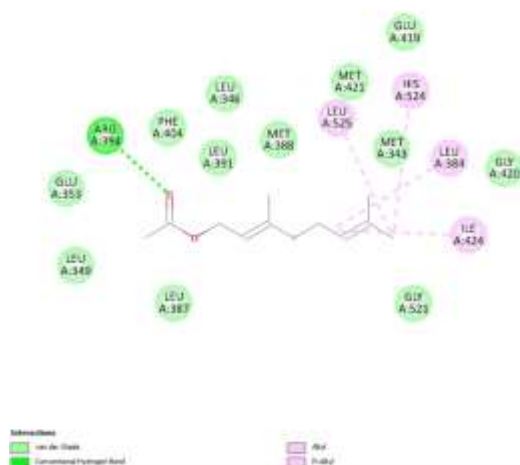
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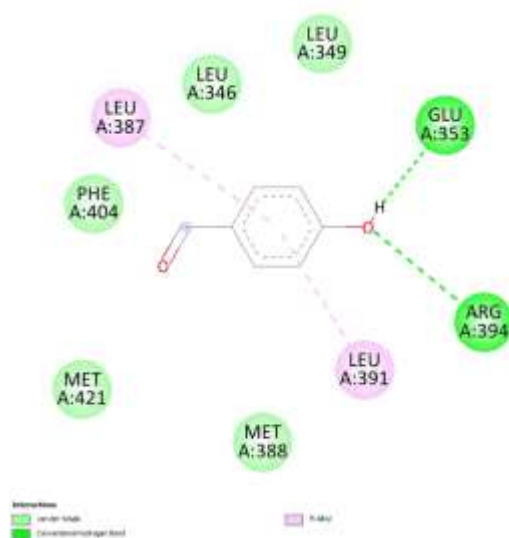
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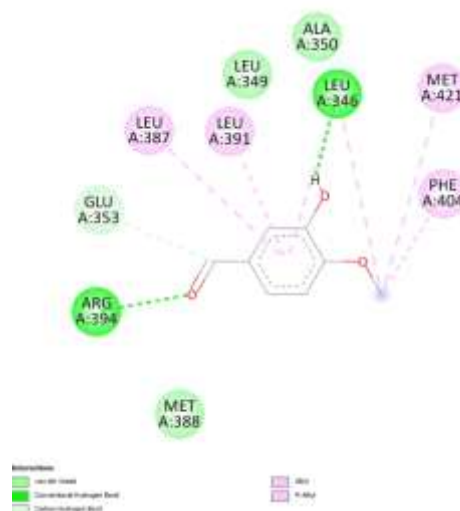
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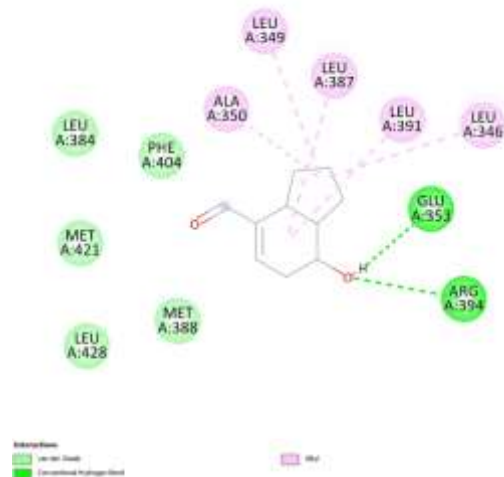
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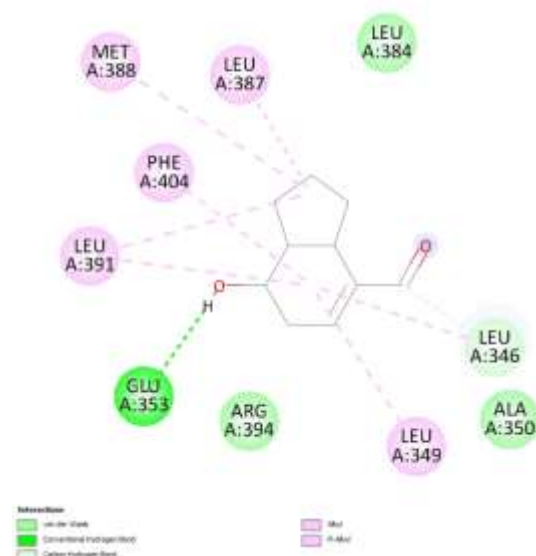
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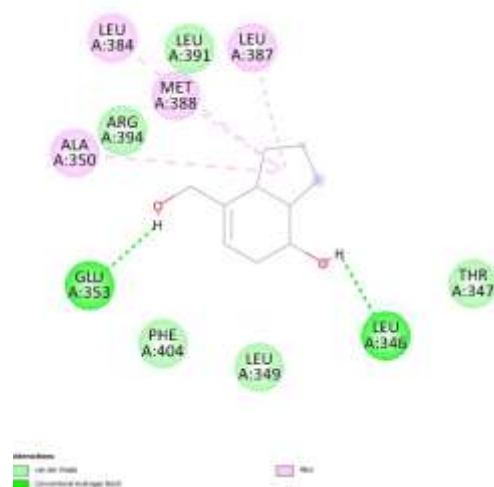
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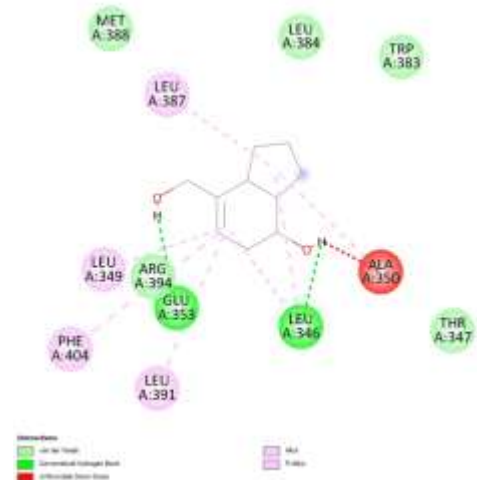
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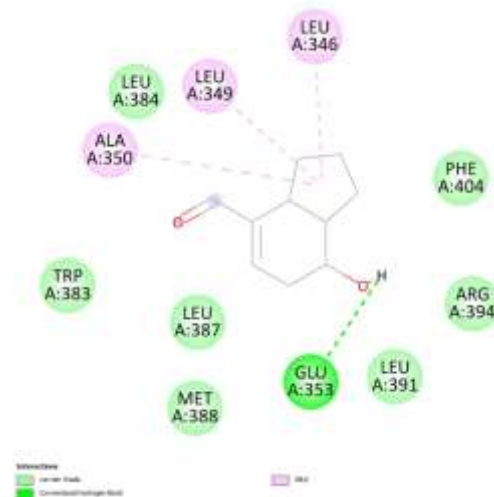
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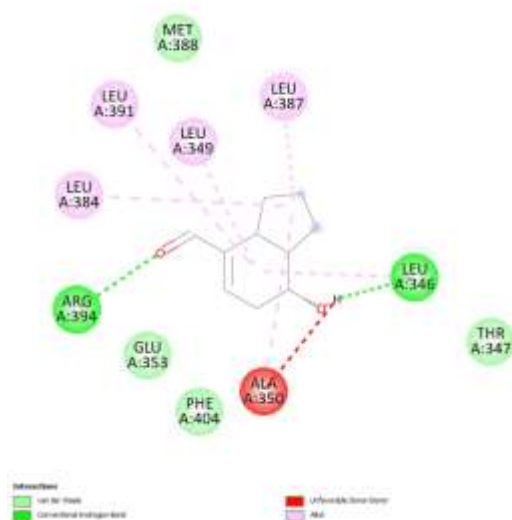
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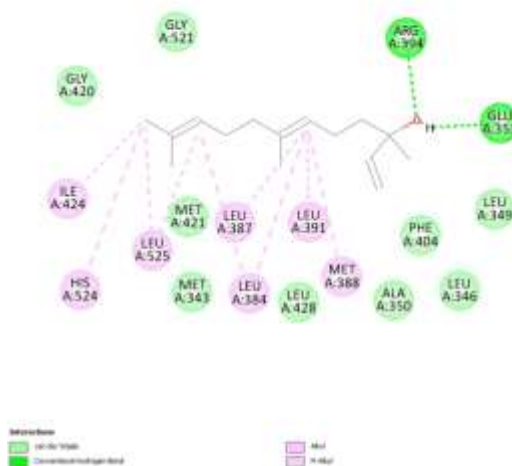
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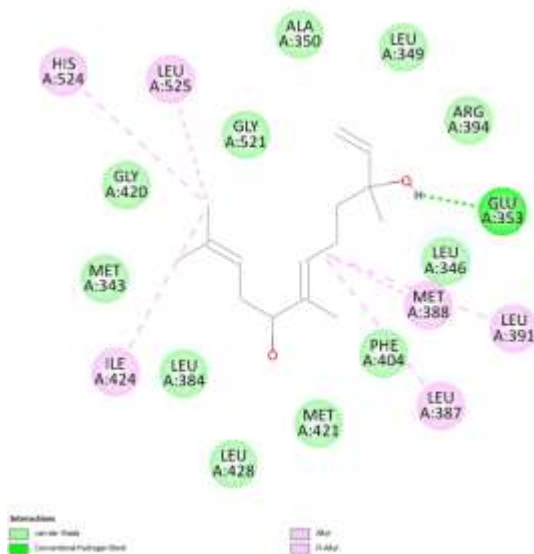
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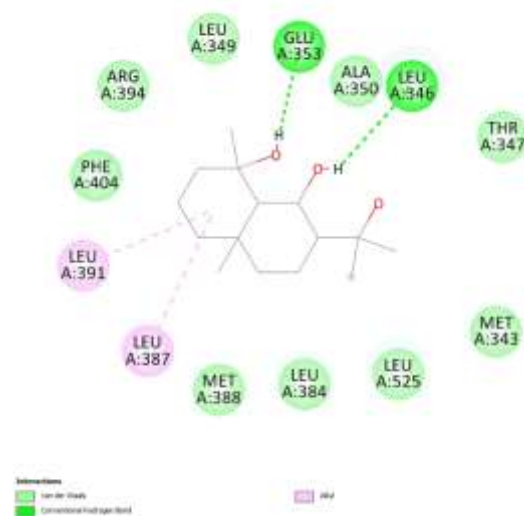
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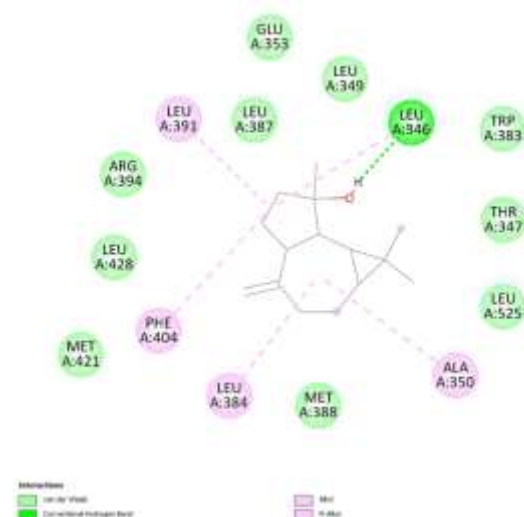
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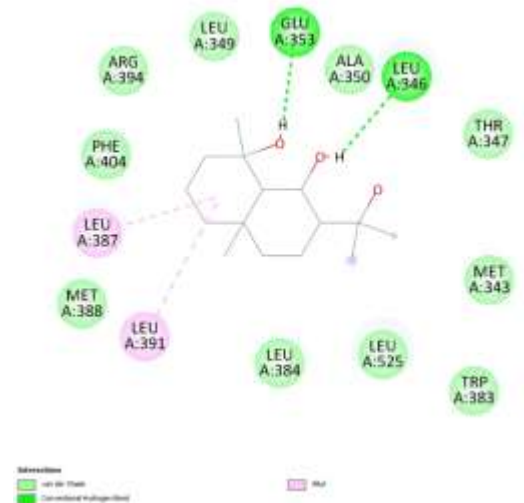
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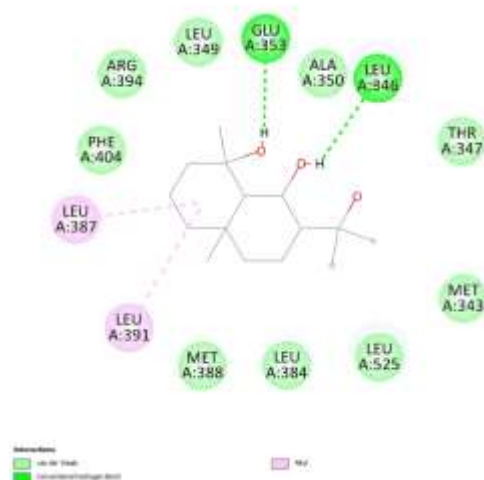
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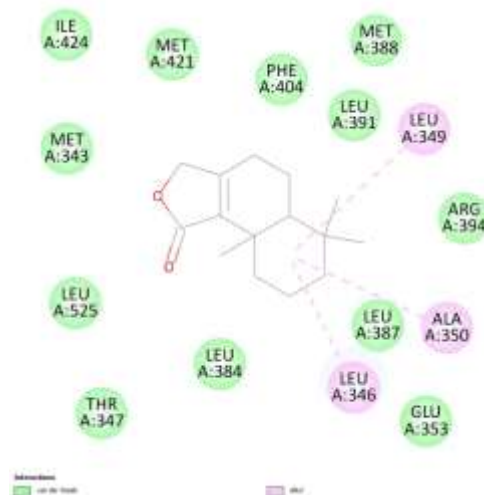
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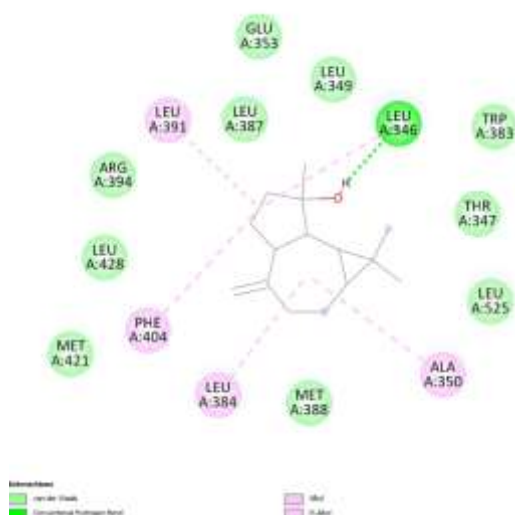
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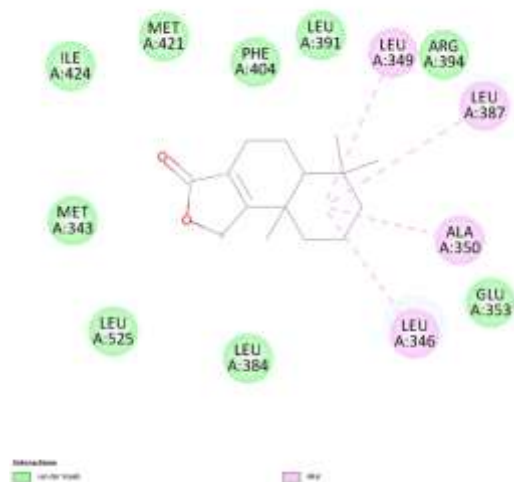


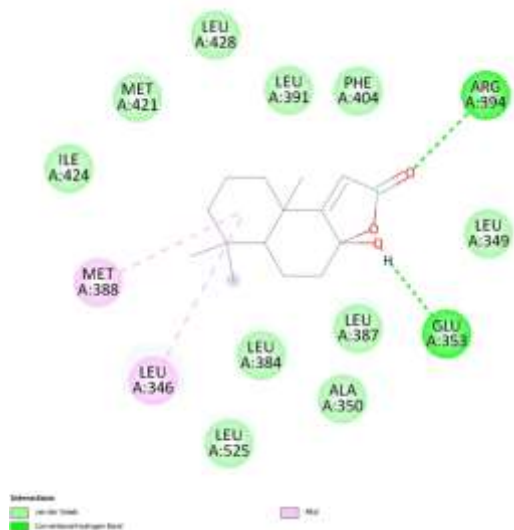
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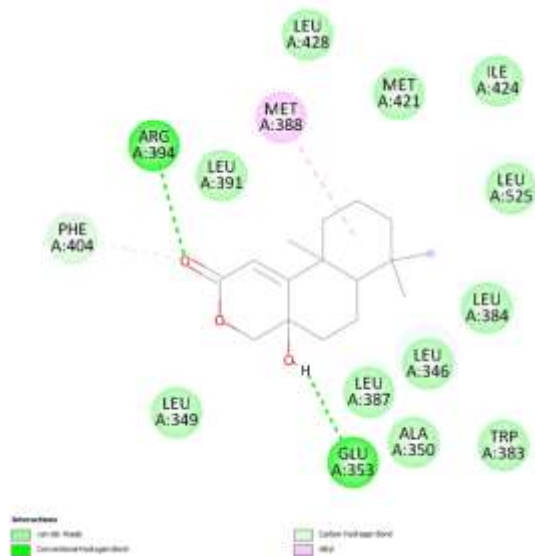


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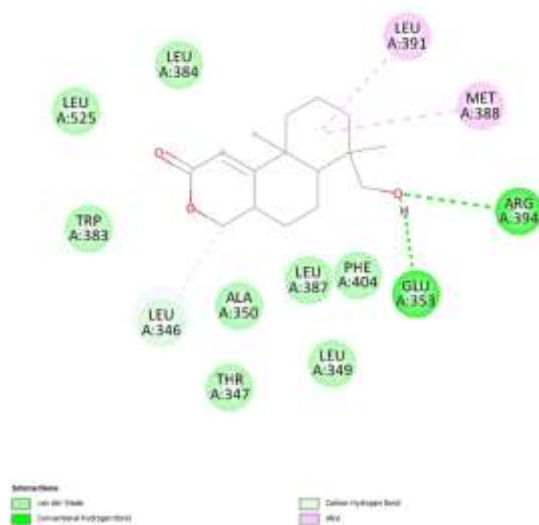


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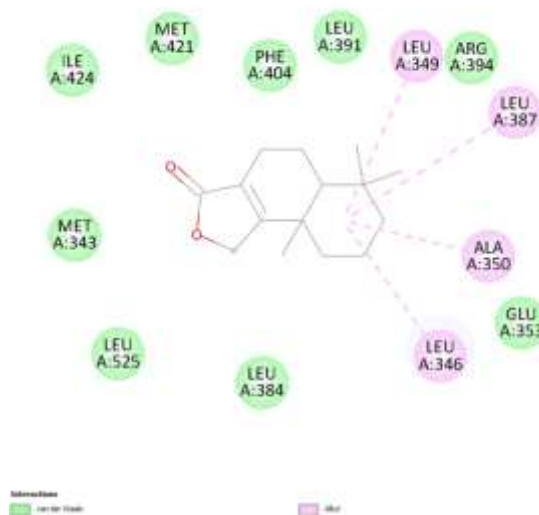
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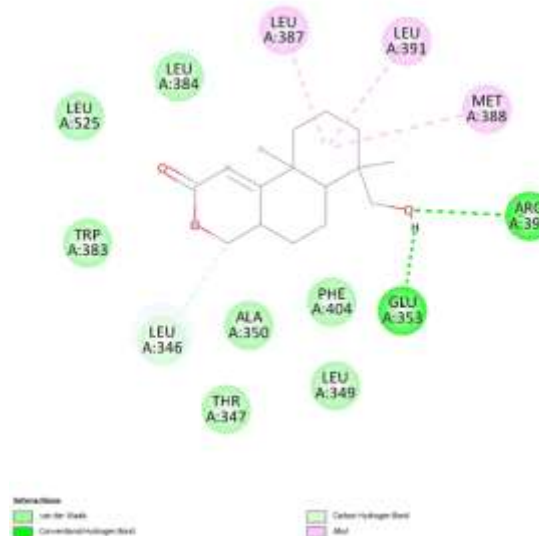
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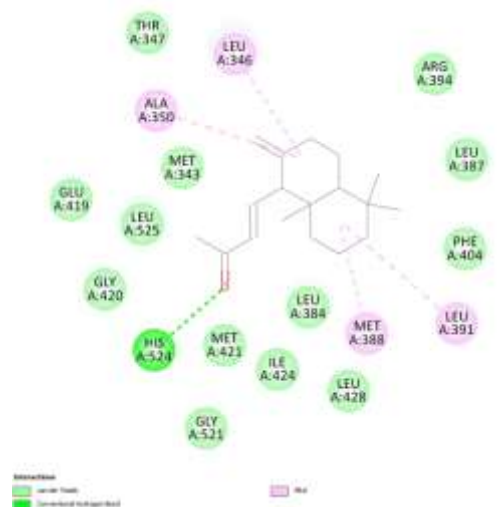
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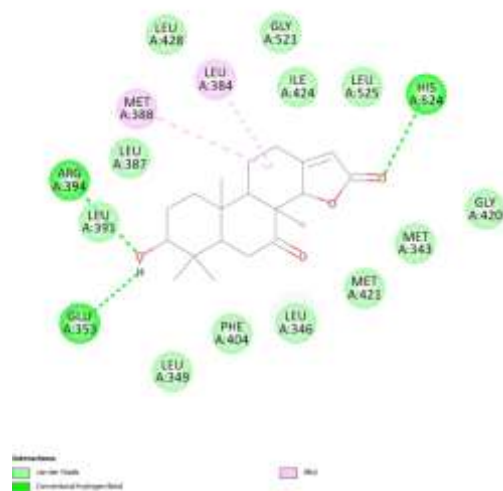
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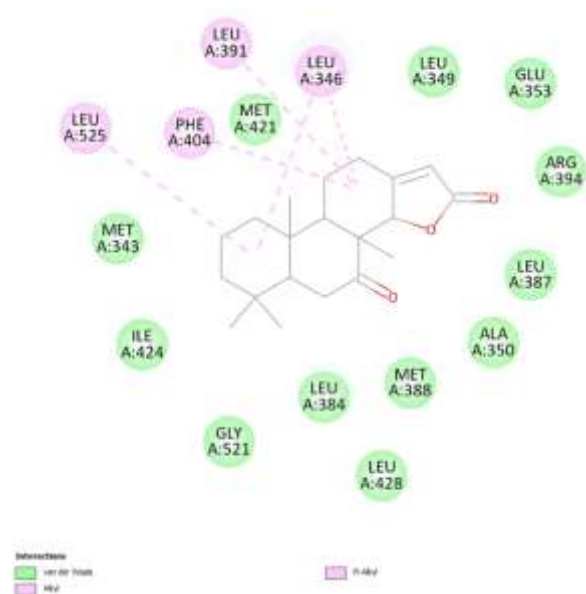
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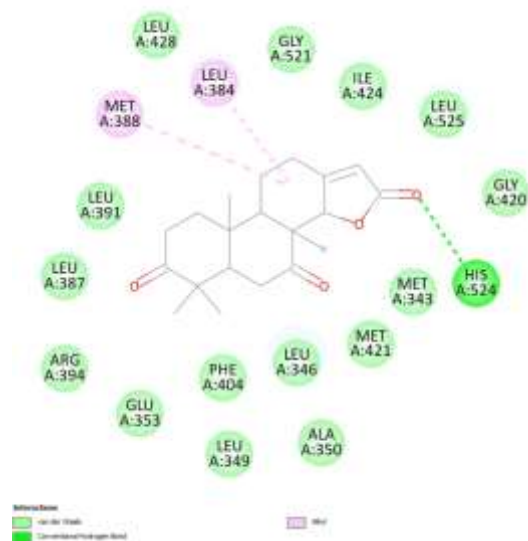
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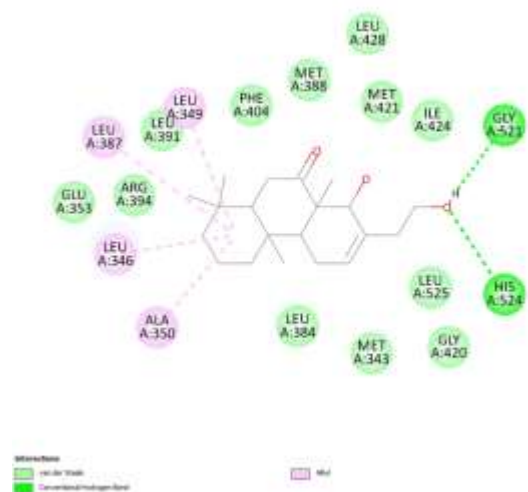
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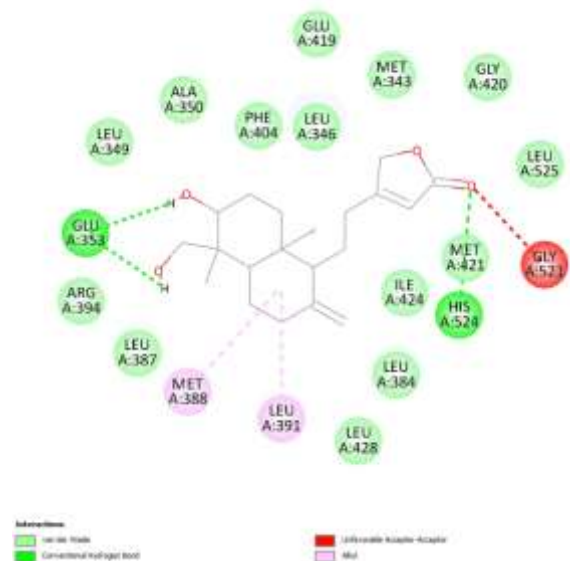
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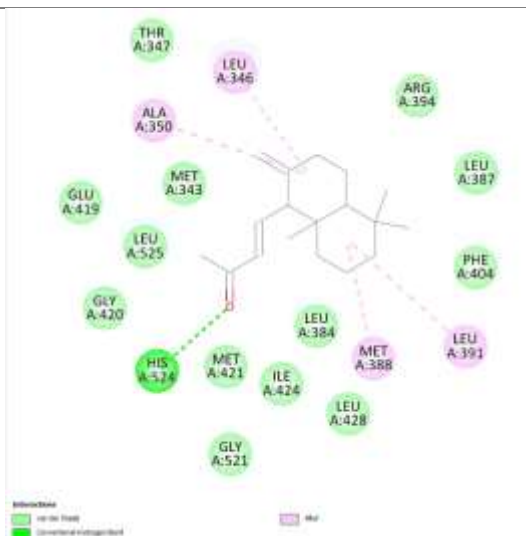
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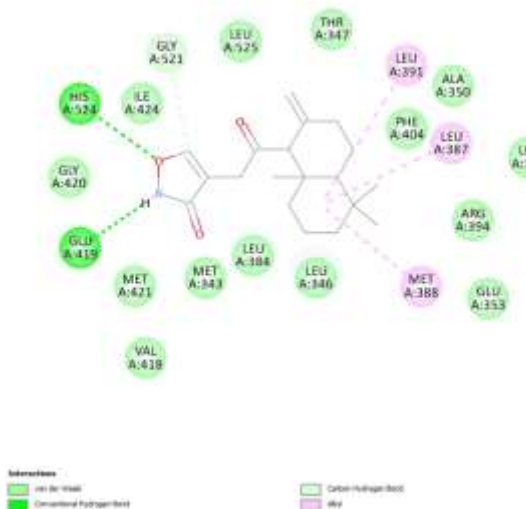
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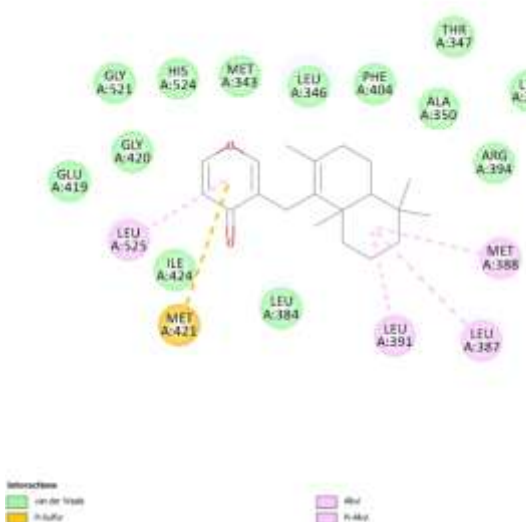
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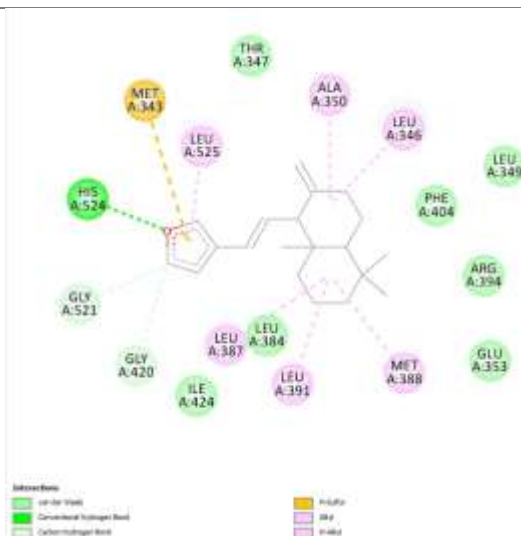
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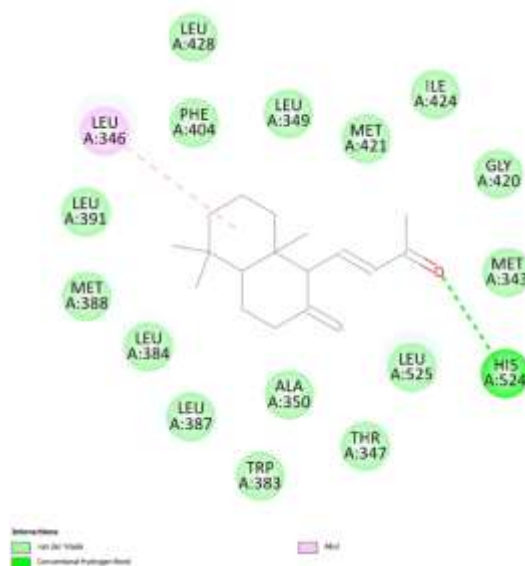
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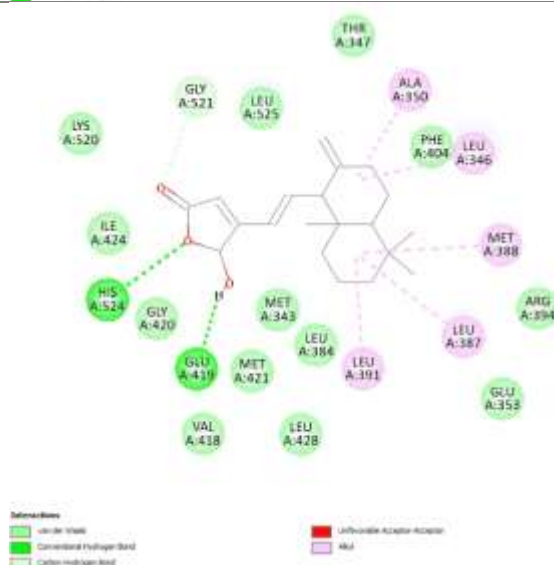
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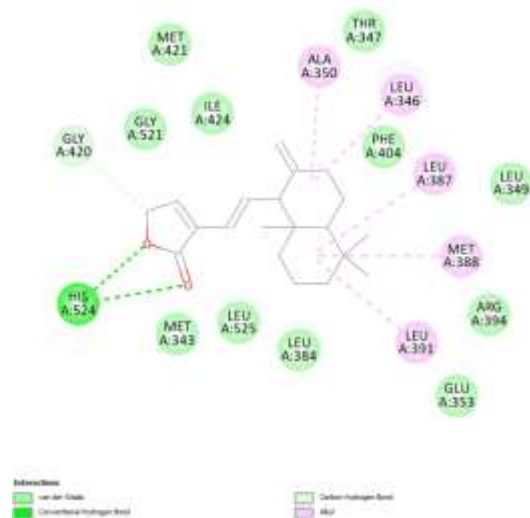
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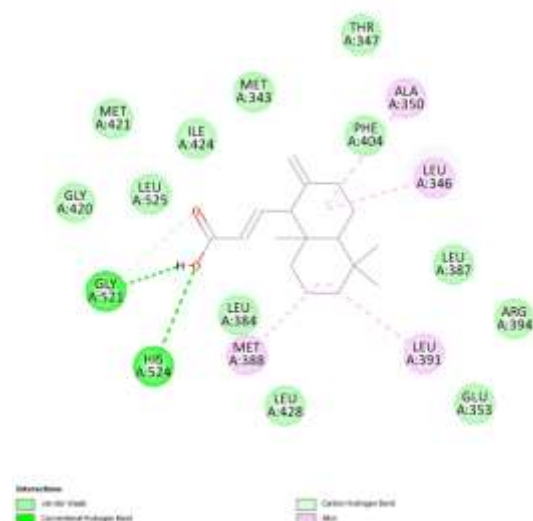
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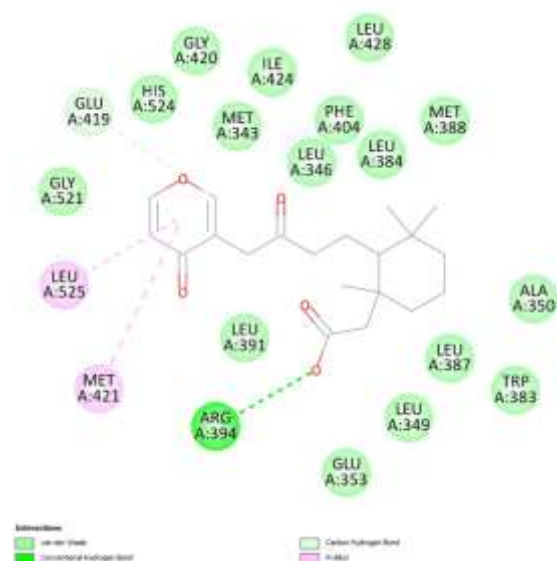
T42



T43



T44



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Lampiran 5 Kartu bimbingan

Nama		20FF0343	Nama Mahasiswa	SARTIKA WIDIA NINGSIH
Program Studi		SI Farmasi	Jenis TB	Skripsi
Nilai Lulus		149 SKS	Tgl. Pengajuan	7 Oktober 2024
Judul Disajikan		PENAMBATAN MOLEKUL DAN SIMULASI DINAMIKA MOLEKUL SENYAWA TERPENCIK DEHUS AMAMUM PADA TARGET RESEPTOR ESTROGEN ALFA SEBAGAI AGONIS ANTIKANKER PAYUDARA		

Data tidak bisa diunduh, Status Pengajuan proposal sudah Disetujui					
--	--	--	--	--	--

No	Tanggal	Pembimbing Proposal	Topik	Ditandatangani	Aksi
1	4 November 2024	apt. Purnawati, M.Si.	laporan topik dan judul	✓	
1	17 Oktober 2024	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Pernyataan	✓	
2	5 November 2024	apt. Purnawati, M.Si.	laporan kemajuan 1	✓	
2	5 November 2024	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	persiapan presentasi kemajuan 1	✓	
3	8 November 2024	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Persiapan laporan bimbingan 1	✓	
3	21 Desember 2024	apt. Purnawati, M.Si.	laporan kemajuan 2	✓	
4	20 Oktober 2024	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	mencari senyawa nitrogen sebagai antikanker	✓	
4	23 Desember 2024	apt. Purnawati, M.Si.	Dikusi mengenai hasil draft proposal	✓	
5	5 Januari 2025	apt. Purnawati, M.Si.	Dikusi Mengenal Draft Proposal	✓	
5	8 Desember 2024	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	mencari literatur untuk bab 2	✓	
6	21 November 2024	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	mencari literatur untuk bab 2 dan 3	✓	
6	12 Januari 2025	apt. Purnawati, M.Si.	Dikusi Mengenal Draft Proposal	✓	
7	18 Desember 2024	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	mencari literatur untuk bab 2 dan 3	✓	
7	12 Januari 2025	apt. Purnawati, M.Si.	Konfirmasi Perubahan Reseptor Target	✓	
8	15 Januari 2025	apt. Purnawati, M.Si.	Dikusi Draft Proposal Untuk Pendaftaran Seminar Proposal	✓	
8	21 Desember 2024	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	laporan kemajuan 3	✓	
9	12 Januari 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Konfirmasi Perubahan Reseptor Target		

No	Tanggal	Dosen Pembimbing	Topik	Ditandatangani	Aksi
1	16 April 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Progres Penelitian	✓	
1	28 April 2025	apt. Purnawati, M.Si.	Laporan Progres Penelitian	✓	
2	8 Mei 2025	apt. Purnawati, M.Si.	laporan kemajuan 1	✓	
3	22 April 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Laporan Progres Penelitian	✓	
3	5 Mei 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	laporan kemajuan 1	✓	
3	30 Mei 2025	apt. Purnawati, M.Si.	Melaporkan Progres Penelitian	✓	
4	16 Mei 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Laporan Progres Penelitian	✓	
4	13 Juni 2025	apt. Purnawati, M.Si.	Laporan Progres Penelitian	✓	
5	30 Juni 2025	apt. Purnawati, M.Si.	laporan hasil Penelitian	✓	
5	2 Juni 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Melaporkan Progres Penelitian	✓	
6	1 Juli 2025	apt. Purnawati, M.Si.	Melaporkan Draft Skripsi	✓	
6	4 Juni 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	laporan kemajuan 2	✓	
7	1 Juli 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	laporan hasil Penelitian	✓	
7	7 Juli 2025	apt. Purnawati, M.Si.	Melaporkan Draft Skripsi	✓	
8	8 Juli 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Melaporkan Draft Skripsi	✓	
8	10 Juli 2025	apt. Purnawati, M.Si.	Konfirmasi Pendaftaran Sidang Kollokium	✓	
9	10 Juli 2025	Dr apt. Dedien Indra Dirnata, S.Si, M.Si.	Konfirmasi Pendaftaran Sidang Kollokium	✓	

Lampiran 6 Riwayat hidup



Nama Lengkap : Sartika Widia Nengsih
 Nama Panggilan : Ika
 Tempat/Tanggal Lahir : Subang, 09 Oktober 2002
 Jenis Kelamin : Perempuan
 Agama : Islam
 Alamat : Kp. Cireunde Girang RT.28/RW.12 Desa Cipancar, Kec. Serangpanjang, Kab. Subang, Jawa Barat
 Email : ikacan092@gmail.com
 Nama Ayah : Kasman
 Nama Ibu : Roswati
 Anak Ke- : 3 dari 3 bersaudara

Pendidikan

SD : SDN Cikujang
 SMP : SMPN 1 Serangpanjang
 SMA : SMAN 1 Jalancagak

Pengalaman Organisasi

1. Menjadi sekretaris kegiatan PKKMB Universitas tahun 2022.
2. Menjadi anggota Komunitas Fotografi Farmasi Indonesi (KOFFI) 2021-2022.
3. Menjadi panitia kegiatan Rapat Kerja Nasional Ismafarsi tahun 2023.