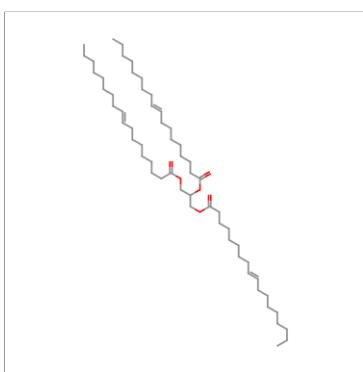
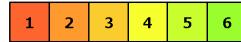


Oral toxicity prediction results for input compound



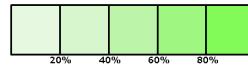
Predicted LD50: 3520mg/kg

Predicted Toxicity Class: 5



Average similarity: 96.49%

Prediction accuracy: 72.9%



Name	CCCCCC/C=C/CCCC
Molweight	885.43
Number of hydrogen bond acceptors	6
Number of hydrogen bond donors	0
Number of atoms	63
Number of bonds	62
Number of rotatable bonds	53
Molecular refractivity	278.55
Topological Polar Surface Area	78.9
octanol/water partition coefficient(logP)	18.1

Toxicity Model Report

Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	<u>Hepatotoxicity</u>	dili	Calculating...	Calculating...
Organ toxicity	<u>Neurotoxicity</u>	neuro	Calculating...	Calculating...
Organ toxicity	<u>Nephrotoxicity</u>	nephro	Calculating...	Calculating...
Organ toxicity	<u>Respiratory toxicity</u>	respi	Calculating...	Calculating...
Organ toxicity	<u>Cardiotoxicity</u>	cardio	Calculating...	Calculating...
Toxicity end points	<u>Carcinogenicity</u>	carcino	Calculating...	Calculating...
Toxicity end points	<u>Immunotoxicity</u>	immuno	Calculating...	Calculating...
Toxicity end points	<u>Mutagenicity</u>	mutagen	Calculating...	Calculating...
Toxicity end points	<u>Cytotoxicity</u>	cyto	Calculating...	Calculating...
Toxicity end points	<u>BBB-barrier</u>	bbb	Calculating...	Calculating...
Toxicity end points	<u>Ecotoxicity</u>	eco	Calculating...	Calculating...
Toxicity end points	<u>Clinical toxicity</u>	clinical	Calculating...	Calculating...
Toxicity end points	<u>Nutritional toxicity</u>	nutri	Calculating...	Calculating...
Tox21-Nuclear receptor signalling pathways	<u>Aryl hydrocarbon Receptor (AhR)</u>	nr_ahr	Calculating...	Calculating...
Tox21-Nuclear receptor signalling pathways	<u>Androgen Receptor (AR)</u>	nr_ar	Calculating...	Calculating...
Tox21-Nuclear receptor signalling pathways	<u>Androgen Receptor Ligand Binding Domain (AR-LBD)</u>	nr_ar_lbd	Calculating...	Calculating...
Tox21-Nuclear receptor signalling pathways	<u>Aromatase</u>	nr_aromatase	Calculating...	Calculating...
Tox21-Nuclear receptor signalling pathways	<u>Estrogen Receptor Alpha (ER)</u>	nr_er	Calculating...	Calculating...
Tox21-Nuclear receptor signalling pathways	<u>Estrogen Receptor Ligand Binding Domain (ER-LBD)</u>	nr_er_lbd	Calculating...	Calculating...
Tox21-Nuclear receptor signalling pathways	<u>Peroxxisome Proliferator Activated Receptor Gamma (PPAR-Gamma)</u>	nr_ppar_gamma	Calculating...	Calculating...
Tox21-Stress response pathways	<u>Nuclear factor (erythroid-derived 2)-like 2/antioxidant responsive element (nrf2/ARE)</u>	sr_are	Calculating...	Calculating...
Tox21-Stress response pathways	<u>Heat shock factor response element (HSE)</u>	sr_hse	Calculating...	Calculating...
Tox21-Stress response pathways	<u>Mitochondrial Membrane Potential (MMP)</u>	sr_mmp	Calculating...	Calculating...
Tox21-Stress response pathways	<u>Phosphoprotein (Tumor Suppressor) p53</u>	sr_p53	Calculating...	Calculating...
Tox21-Stress response pathways	<u>ATPase family AAA domain-containing protein 5 (ATAD5)</u>	sr_atad5	Calculating...	Calculating...
Molecular Initiating Events	<u>Thyroid hormone receptor alpha (THRa)</u>	mie_thr_alpha	Calculating...	Calculating...
Molecular Initiating Events	<u>Thyroid hormone receptor beta (THRβ)</u>	mie_thr_beta	Calculating...	Calculating...
Molecular Initiating Events	<u>Transtyretin (TTR)</u>	mie_ttr	Calculating...	Calculating...
Molecular Initiating Events	<u>Ryanodine receptor (RYR)</u>	mie_ryr	Calculating...	Calculating...
Molecular Initiating Events	<u>GABA receptor (GABAR)</u>	mie_gabar	Calculating...	Calculating...
Molecular Initiating Events	<u>Glutamate N-methyl-D-aspartate receptor (NMDAR)</u>	mie_nmdar	Calculating...	Calculating...
Molecular Initiating Events	<u>alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionate receptor (AMPAR)</u>	mie_ampar	Calculating...	Calculating...
Molecular Initiating Events	<u>Kainate receptor (KAR)</u>	mie_kar	Calculating...	Calculating...
Molecular Initiating Events	<u>Achetylcholinesterase (AChE)</u>	mie_ache	Calculating...	Calculating...
Molecular Initiating Events	<u>Constitutive androstane receptor (CAR)</u>	mie_car	Calculating...	Calculating...
Molecular Initiating Events	<u>Pregnane X receptor (PXR)</u>	mie_pxr	Calculating...	Calculating...
Molecular Initiating Events	<u>NADH-quinone oxidoreductase (NADHOX)</u>	mie_nadrox	Calculating...	Calculating...
Molecular Initiating Events	<u>Voltage gated sodium channel (VGSC)</u>	mie_vgsc	Calculating...	Calculating...
Molecular Initiating Events	<u>Na+/L-symporter (NIS)</u>	mie_nis	Calculating...	Calculating...
Metabolism	<u>Cytochrome CYP1A2</u>	CYP1A2	Calculating...	Calculating...
Metabolism	<u>Cytochrome CYP2C19</u>	CYP2C19	Calculating...	Calculating...
Metabolism	<u>Cytochrome CYP2C9</u>	CYP2C9	Calculating...	Calculating...

Classification	Target	Shorthand	Prediction	Probability
Metabolism	<u>Cytochrome CYP2D6</u>	CYP2D6	Calculating...	Calculating...
Metabolism	<u>Cytochrome CYP3A4</u>	CYP3A4	Calculating...	Calculating...
Metabolism	<u>Cytochrome CYP2E1</u>	CYP2E1	Calculating...	Calculating...

Toxicity targets

Possible binding to toxicity targets is shown below. For more information on the targets, please click on the individual abbreviations.

