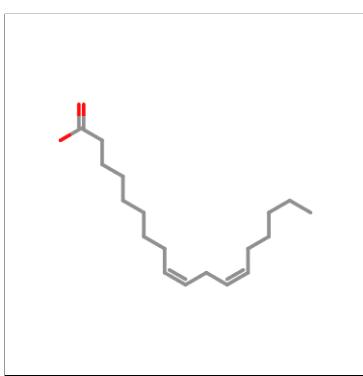
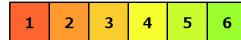


Oral toxicity prediction results for input compound



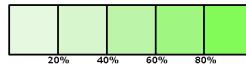
Predicted LD50: 10000mg/kg

Predicted Toxicity Class: 6



Average similarity: 100%

Prediction accuracy: 100%



Name	CCCCC/C=CC/C=CCCC
Molweight	280.45
Number of hydrogen bond acceptors	2
Number of hydrogen bond donors	1
Number of atoms	20
Number of bonds	19
Number of rotatable bonds	14
Molecular refractivity	89.46
Topological Polar Surface Area	37.3
octanol/water partition coefficient(logP)	5.88

Toxicity Model Report

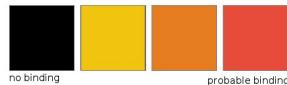
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Classification	Target	Shorthand	Prediction	Probability
Organ toxicity	Hepatotoxicity	dili	Inactive	0.55
Organ toxicity	Neurotoxicity	neuro	Inactive	0.91
Organ toxicity	Nephrotoxicity	nephro	Inactive	0.55
Organ toxicity	Respiratory toxicity	respi	Inactive	0.84
Organ toxicity	Cardiotoxicity	cardio	Inactive	0.99
Toxicity end points	Carcinogenicity	carcino	Inactive	0.64
Toxicity end points	Immunotoxicity	immuno	Inactive	0.96
Toxicity end points	Mutagenicity	mutagen	Inactive	1.0
Toxicity end points	Cytotoxicity	cyto	Inactive	0.71
Toxicity end points	BBB-barrier	bbb	Active	0.89
Toxicity end points	Ecotoxicity	eco	Active	0.65
Toxicity end points	Clinical toxicity	clinical	Inactive	0.61
Toxicity end points	Nutritional toxicity	nutri	Inactive	0.89
Tox21-Nuclear receptor signalling pathways	Aryl hydrocarbon Receptor (AhR)	nr_ahr	Inactive	1.0
Tox21-Nuclear receptor signalling pathways	Androgen Receptor (AR)	nr_ar	Inactive	1.0
Tox21-Nuclear receptor signalling pathways	Androgen Receptor Ligand Binding Domain (AR-LBD)	nr_ar_lbd	Inactive	1.0
Tox21-Nuclear receptor signalling pathways	Aromatase	nr_aromatase	Inactive	1.0
Tox21-Nuclear receptor signalling pathways	Estrogen Receptor Alpha (ER)	nr_er	Inactive	1.0
Tox21-Nuclear receptor signalling pathways	Estrogen Receptor Ligand Binding Domain (ER-LBD)	nr_er_lbd	Inactive	1.0
Tox21-Nuclear receptor signalling pathways	Peroxisome Proliferator Activated Receptor Gamma (PPAR-Gamma)	nr_ppar_gamma	Active	0.90
Tox21-Stress response pathways	Nuclear factor (erythroid-derived 2)-like 2/antioxidant responsive element (nrf2/ARE)	sr_are	Active	0.91
Tox21-Stress response pathways	Heat shock factor response element (HSE)	sr_hse	Active	0.91
Tox21-Stress response pathways	Mitochondrial Membrane Potential (MMP)	sr_mmp	Inactive	1.0
Tox21-Stress response pathways	Phosphoprotein (Tumor Suppressor) p53	sr_p53	Inactive	1.0
Tox21-Stress response pathways	ATPase family AAA domain-containing protein 5 (ATAD5)	sr_atad5	Inactive	1.0
Molecular Initiating Events	Thyroid hormone receptor alpha (THRa)	mie_thr_alpha	Inactive	0.90
Molecular Initiating Events	Thyroid hormone receptor beta (THRβ)	mie_thr_beta	Inactive	0.78
Molecular Initiating Events	Transtyretrin (TTR)	mie_ttr	Inactive	0.97
Molecular Initiating Events	Ryanodine receptor (RYR)	mie_ryr	Inactive	0.98
Molecular Initiating Events	GABA receptor (GABAR)	mie_gabar	Inactive	0.96
Molecular Initiating Events	Glutamate N-methyl-D-aspartate receptor (NMDAR)	mie_nmdar	Inactive	0.92
Molecular Initiating Events	alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionate receptor (AMPAR)	mie_ampar	Inactive	0.97
Molecular Initiating Events	Kainate receptor (KAR)	mie_kar	Inactive	0.99
Molecular Initiating Events	Acetylcholinesterase (AChE)	mie_ache	Inactive	0.55
Molecular Initiating Events	Constitutive androstane receptor (CAR)	mie_car	Inactive	0.98
Molecular Initiating Events	Pregnane X receptor (PXR)	mie_pxr	Inactive	0.92
Molecular Initiating Events	NADH-quinone oxidoreductase (NADHOX)	mie_nadrox	Inactive	0.97
Molecular Initiating Events	Voltage-gated sodium channel (VGSC)	mie_vgsc	Inactive	0.95

Classification	Target	Shorthand	Prediction	Probability
Molecular Initiating Events	<u>Na⁺/I⁻ symporter (NIS)</u>	mie_nis	Inactive	0.98
Metabolism	<u>Cytochrome CYP1A2</u>	CYP1A2	Inactive	0.91
Metabolism	<u>Cytochrome CYP2C19</u>	CYP2C19	Inactive	0.98
Metabolism	<u>Cytochrome CYP2C9</u>	CYP2C9	Inactive	0.69
Metabolism	<u>Cytochrome CYP2D6</u>	CYP2D6	Inactive	0.88
Metabolism	<u>Cytochrome CYP3A4</u>	CYP3A4	Inactive	1.0
Metabolism	<u>Cytochrome CYP2E1</u>	CYP2E1	Inactive	0.99

Toxicity targets

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



AA2AR ADRB2 ANDR AOFA CRFR1 DRD3 ESR1 ESR2 GCR HRH1 NR1I2 OPRK Oprm PDE4D PGH1 PRGR