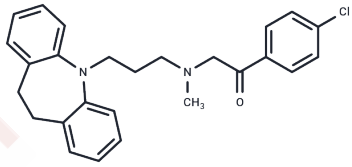
Data Sheet (Cat.No.T15773)

TargetMol

Lofepramine

Chemical Properties



CAS No. : 23047-25-8

Formula: C26H27ClN2O

Molecular Weight: 418.96

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Lofepramine (Leo 640) is a potent tricyclic antidepressant that is extensively metabolized to desipramine. It inhibits the serotonin and norepinephrine transporters by inhibiting neurons with Kd values of 70 and 5.4 nM, respectively, with weak antagonism of serotonin, histamine and muscarinic receptors.
Targets(IC50)	5-HT Receptor,Norepinephrine

Solubility Information

Solubility	DMSO: 48 mg/mL (114.57 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3869 mL	11.9343 mL	23.8686 mL
5 mM	0.4774 mL	2.3869 mL	4.7737 mL
10 mM	0.2387 mL	1.1934 mL	2.3869 mL
50 mM	0.0477 mL	0.2387 mL	0.4774 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Lancaster SG, et al. Lofepramine. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in depressive illness. Drugs. 1989 Feb;37(2):123-40.

Cusack, B., Nelson, A., and Richelson, E. Binding of antidepressants to human brain receptors: Focus on newer generation compounds. Psychopharmacology (Berl.) 114(4), 559-565 (1994).

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