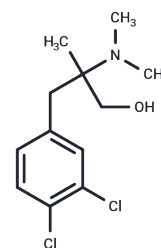


Cericlamine

Chemical Properties

CAS No. :	112922-55-1
Formula:	C ₁₂ H ₁₇ Cl ₂ NO
Molecular Weight:	262.18
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cericlamine is a selective 5-hydroxytryptamine (5-HT) reuptake blocker with antidepressant activity.
Targets(IC50)	5-HT Receptor
In vivo	Cericlamine was injected for 2 weeks at a dose (16 mg/kg i.p., twice daily) that ensured complete prevention of 4-methyl-alpha-ethyl-meta-tyramine-induced depletion of brain serotonin. In vitro binding and quantitative autoradiographic studies showed that neither 5-HT _{1A} , 5-HT _{2A} , 5-HT _{2C} nor 5-HT ₃ receptor binding sites in various brain areas were affected by the 14-day treatment with cericlamine. Although forskolin-stimulated adenylate cyclase activity was significantly increased in hippocampal homogenates from cericlamine-treated rats, the reduction in this enzymatic activity due to 5-HT _{1A} receptor stimulation by 8-hydroxy-2-(di-n-propylamino)tetralin (8-OH-DPAT) was unchanged in these animals as compared with controls. Thus the potency of 8-OH-DPAT and ipsapirone to depress the firing rate of these neurons in brain stem slices was significantly reduced after the 2-week treatment with cericlamine. In vivo, the potency of an injection of cericlamine to inhibit the discharge of serotonergic neurons was also markedly less in rats that had been pretreated for 2 weeks with this drug as compared with controls.[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (171.64 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8142 mL	19.0709 mL	38.1417 mL
5 mM	0.7628 mL	3.8142 mL	7.6283 mL
10 mM	0.3814 mL	1.9071 mL	3.8142 mL
50 mM	0.0763 mL	0.3814 mL	0.7628 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481