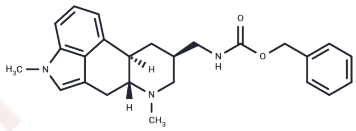
Data Sheet (Cat.No.T4008)

TargetMol

Metergoline

Chemical Properties



CAS No. : 17692-51-2

Formula: C25H29N3O2

Molecular Weight: 403.52

Storage: Store at low temperature
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	Metergoline (Methergoline) is a dopamine agonist and serotonin antagonist. It has been used similarly to BROMOCRIPTINE as a dopamine agonist and also for migraine disorder therapy.
Targets(IC50)	5-HT Receptor,Dopamine Receptor,Sodium Channel

Solubility Information

Solubility	DMSO: 132.5 mg/mL (328.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.96 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4782 mL	12.391 mL	24.7819 mL
5 mM	0.4956 mL	2.4782 mL	4.9564 mL
10 mM	0.2478 mL	1.2391 mL	2.4782 mL
50 mM	0.0496 mL	0.2478 mL	0.4956 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.

Reference

Millan, M.J.,Newman-Tancredi, A.,Lochon, S., et al. Specific labelling of serotonin 5-HT1B receptors in rat frontal cortex with the novel, phenylpiperazine derivative, [3H]GR125,743. A pharmacological characterization. Pharmacol. Biochem. Behav. 71(4), 589-598 (2002).

Knight, A.R.,Misra, A.,Quirk, K., et al. Pharmacological characterisation of the agonist radioligand binding site of 5-HT2A, 5-HT2B and 5-HT2C receptors. Naunyn Schmiedebergs Arch. Pharmacol. 370(2), 114-123 (2004)

Knight, J.A.,Smith, C.,Toohey, N., et al. Pharmacological analysis of the novel, rapid, and potent inactivation of the human 5-Hydroxytryptamine7 receptor by risperidone, 9-OH-Risperidone, and other inactivating antagonists. Mol. Pharmacol. 75(2), 374-380 (2009).

Yeom, H.D. and Lee, J.-H. Regulation of human Kv1.4 channel activity by the antidepressant metergoline. Biol. Pharm. Bull. 39(6), 1069-1072 (2016).

Lee, J.-H.,Liu, J.,Shin, M., et al. Metergoline inhibits the neuronal Nav1.2 voltage-dependent Na+ channels expressed in Xenopus oocytes. Acta. Pharmacol. Sin. 35(7), 862-868 (2014).

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