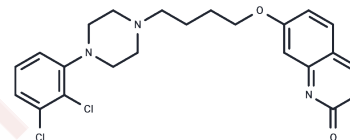


Dehydroaripiprazole

Chemical Properties

CAS No. :	129722-25-4
Formula:	C ₂₃ H ₂₅ Cl ₂ N ₃ O ₂
Molecular Weight:	446.37
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	Dehydroaripiprazole (DM-14857) is the active metabolite of aripiprazole. Aripiprazole is an antipsychotic drug, which is metabolized by CYP3A4 and CYP2D6 and mainly forms dehydroaripiprazole. Dehydroaripiprazole has antipsychotic activity equivalent to aripiprazole.
Targets(IC50)	5-HT Receptor, Dopamine Receptor

Solubility Information

Solubility	DMSO: 11 mg/mL (24.64 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: 1 mg/mL (2.24 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2403 mL	11.2015 mL	22.4029 mL
5 mM	0.4481 mL	2.2403 mL	4.4806 mL
10 mM	0.224 mL	1.1201 mL	2.2403 mL
50 mM	0.0448 mL	0.224 mL	0.4481 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

Kirschbaum KM, et al. Serum levels of aripiprazole and dehydroaripiprazole, clinical response and side effects. World J Biol Psychiatry. 2008;9(3):212-8.

Lin SK, et al. Aripiprazole and dehydroaripiprazole plasma concentrations and clinical responses in patients with schizophrenia. J Clin Psychopharmacol. 2011 Dec;31(6):758-62.

Hui-ChingHuang, et al. Detection and quantification of aripiprazole and its metabolite, dehydroaripiprazole, by gas chromatography-mass spectrometry in blood samples of psychiatric patients. Journal of Chromatography B. Volume 856, Issues 1-2, 1 September 2007, Pages 57-61.

Stip E, Tourjman V. et al. Aripiprazole in schizophrenia and schizoaffective disorder: A review. Clin Ther. 2010;32 Suppl 1:S3-20.

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