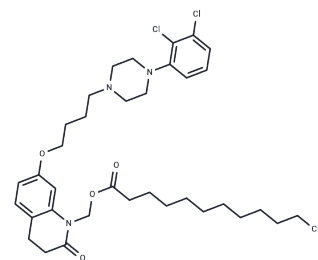


Aripiprazole Lauroxil

Chemical Properties

CAS No. :	1259305-29-7
Formula:	C ₃₆ H ₅₁ Cl ₂ N ₃ O ₄
Molecular Weight:	660.71
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Aripiprazole lauroxil, the N-acyloxymethyl prodrug form of aripiprazole, a long-acting injectable (LAI) antipsychotic. Aripiprazole lauroxil is cleaved by esterases in vivo to N-hydroxymethyl aripiprazole (lauric acid), which is then cleaved to aripiprazole, which is non-toxic.
Targets(IC50)	Dopamine Receptor, 5-HT Receptor
In vivo	Intravenous administration of 1.87 mg/ml Aripiprazole lauroxil bioconversion in vivo involves the formation of an intermediate, N-hydroxymethyl aripiprazole. The in vitro data indicates a high bioconversion of aripiprazole lauroxil, thus, the concentration of N-hydroxymethyl aripiprazole observed in the animals dosed with aripiprazole lauroxil is surprisingly high[1].

Solubility Information

Solubility	DMSO: 8 mg/mL (12.11 mM) (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5135 mL	7.5676 mL	15.1352 mL
5 mM	0.3027 mL	1.5135 mL	3.027 mL
10 mM	0.1514 mL	0.7568 mL	1.5135 mL
50 mM	0.0303 mL	0.1514 mL	0.3027 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

Jann MW, et al. Long-Acting Injectable Second-Generation Antipsychotics: An Update and Comparison Between Agents. *CNS Drugs*. 2018 Mar;32(3):241-257.

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