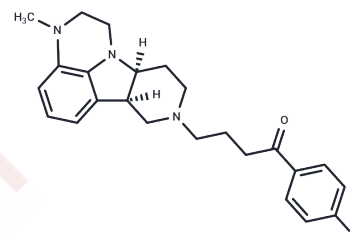


Lumateperone

Chemical Properties

CAS No. :	313368-91-1
Formula:	C ₂₄ H ₂₈ FN ₃ O
Molecular Weight:	393.5
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Lumateperone (ITI 722) is a 5HT _{2A} receptor antagonist and a dopamine receptor phosphoprotein modulator (DPPM).
Targets(IC ₅₀)	5-HT Receptor,Dopamine Receptor
In vivo	ITI-722 was evaluated in the rat quipazine head twitch model induced by quipazine which is a 5-HT _{2A} agonist, ITI-722 have ED ₅₀ values of 0.12 mg/kg.

Solubility Information

Solubility	DMSO: 3.94 mg/mL (10.01 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	2.5413 mL	12.7065 mL	25.413 mL
5 mM	0.5083 mL	2.5413 mL	5.0826 mL
10 mM	0.2541 mL	1.2706 mL	2.5413 mL
50 mM	0.0508 mL	0.2541 mL	0.5083 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

Kumar B, Kuhad A, Kuhad A. Lumateperone: a new treatment approach for neuropsychiatric disorders. *Drugs Today (Barc)*. 2018 Dec;54(12):713-719. doi: 10.1358/dot.2018.54.12.2899443. PubMed PMID: 30596390.

Li P, Zhang Q, Robichaud AJ, Lee T, Tomesch J, Yao W, Beard JD, Snyder GL, Zhu H, Peng Y, Hendrick JP, Vanover KE, Davis RE, Mates S, Wennogle LP. Discovery of a tetracyclic quinoxaline derivative as a potent and orally active multifunctional drug candidate for the treatment of neuropsychiatric and neurological disorders. *J Med Chem*. 2014 Mar 27;57(6):2670-82. doi: 10.1021/jm401958n. Epub 2014 Mar 5. PMID: 24559051.

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