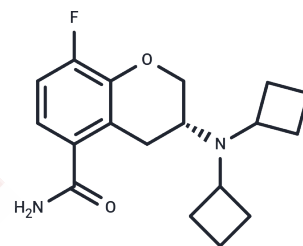


Robalzotan

Chemical Properties

CAS No. :	169758-66-1
Formula:	C ₁₈ H ₂₃ FN ₂ O ₂
Molecular Weight:	318.39
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	Robalzotan is a selective 5-HT _{1A} receptor antagonist.
Targets(IC ₅₀)	Others,5-HT Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1408 mL	15.704 mL	31.408 mL
5 mM	0.6282 mL	3.1408 mL	6.2816 mL
10 mM	0.3141 mL	1.5704 mL	3.1408 mL
50 mM	0.0628 mL	0.3141 mL	0.6282 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

- Pittalà V, Siracusa MA, Salerno L, Romeo G, Modica MN, Madjid N, Ögren SO. Analysis of mechanisms for memory enhancement using novel and potent 5-HT_{1A} receptor ligands. *Eur Neuropsychopharmacol*. 2015 Aug;25(8):1314-23. doi: 10.1016/j.euroneuro.2015.04.017. Epub 2015 Apr 29. PubMed PMID: 25963581.
- Brenna E, Gatti FG, Malpezzi L, Monti D, Parmeggiani F, Sacchetti A. Synthesis of robalzotan, ebalzotan, and rotigotine precursors via the stereoselective multienzymatic cascade reduction of α,β -unsaturated aldehydes. *J Org Chem*. 2013 May 17;78(10):4811-22. doi: 10.1021/jo4003097. Epub 2013 May 8. PubMed PMID: 23611252.
- Eriksson TM, Delagrangé P, Spedding M, Popoli M, Mathé AA, Ögren SO, Svenningsson P. Emotional memory impairments in a genetic rat model of depression: involvement of 5-HT/MEK/Arc signaling in restoration. *Mol Psychiatry*. 2012 Feb;17(2):173-84. doi: 10.1038/mp.2010.131. Epub 2011 Jan 18. PubMed PMID: 21242991; PubMed Central PMCID: PMC3265836.
- Kehr J, Hu XJ, Yoshitake T, Wang FH, Osborne P, Stenfors C, Ögren SO. The selective 5-HT_{1A} receptor antagonist NAD-299 increases acetylcholine release but not extracellular glutamate levels in the frontal cortex and hippocampus of awake rat. *Eur Neuropsychopharmacol*. 2010 Jul;20(7):487-500. doi: 10.1016/j.euroneuro.2010.03.003. Epub 2010 Apr 21. PubMed PMID: 20413275.

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