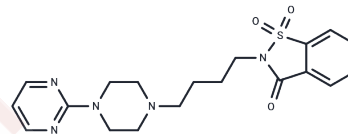


Ipsapirone

Chemical Properties

CAS No. :	95847-70-4
Formula:	C ₁₉ H ₂₃ N ₅ O ₃ S
Molecular Weight:	401.48
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	Ipsapirone is a partial agonist of 5-HT _{1A} receptor and produces an inhibitory effect on 5-HT ₂ and the α ₁ -adrenergic function at high doses.
Targets(IC ₅₀)	5-HT Receptor
In vivo	Ipsapirone (2.5-80 mg/kg) induces a mild hind limb abduction and a slight flattening of body posture at the highest dose. Ipsapirone (35 mg/kg; i.p.) decreases the body temperature in rats and mice.

Solubility Information

Solubility	DMSO: 4.02 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	2.4908 mL	12.4539 mL	24.9078 mL
5 mM	0.4982 mL	2.4908 mL	4.9816 mL
10 mM	0.2491 mL	1.2454 mL	2.4908 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 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

- Stephen M. Stahl, et al. Effectiveness of ipsapirone, a 5-HT-1A partial agonist, in major depressive disorder: support for the role of 5-HT-1A receptors in the mechanism of action of serotonergic antidepressants. *Int J Neuropsychopharmacol.* 1998 Jul;1(1)
- J Maj, et al. Central action of ipsapirone, a new anxiolytic drug, on serotonergic, noradrenergic and dopaminergic functions. *J Neural Transm.* 1987;70(1-2):1-17.

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