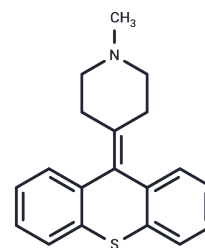


Pimethixene

Chemical Properties

CAS No. :	314-03-4
Formula:	C ₁₉ H ₁₉ N ₅
Molecular Weight:	293.43
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	Pimethixene (Calmixen) is a highly potent 5-HT _{1A} , 5-HT _{2A} , 5-HT _{2B} , 5-HT _{2C} , histamine H ₁ , dopamine D ₂ and D _{4.4} as well as muscarinic M ₁ and M ₂ receptors antagonist (pK _i s of 7.63, 10.22, 10.44, 8.42, 10.14, 8.19, 7.54, 8.61 and 9.38, respectively).
Targets (IC ₅₀)	5-HT Receptor, AChR, Histamine Receptor, Dopamine Receptor

Solubility Information

Solubility	DMSO: 18.33 mg/mL (62.47 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	3.408 mL	17.0398 mL	34.0797 mL
5 mM	0.6816 mL	3.408 mL	6.8159 mL
10 mM	0.3408 mL	1.704 mL	3.408 mL
50 mM	0.0682 mL	0.3408 mL	0.6816 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

Schmitz B, et al. BF-1--a novel selective 5-HT_{2B} receptor antagonist blocking neurogenic dural plasma protein extravasation in guinea pigs. Eur J Pharmacol. 2015 Mar 15;751:73-80.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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