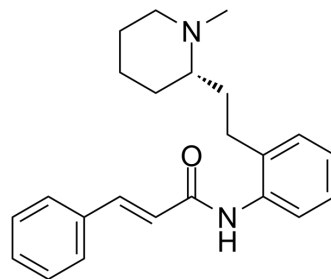


Iferanserin

Cat. No.:	HY-118557
CAS No.:	58754-46-4
Molecular Formula:	C ₂₃ H ₂₈ N ₂ O
Molecular Weight:	348.48
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (143.48 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.8696 mL</td> <td>14.3480 mL</td> <td>28.6961 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5739 mL</td> <td>2.8696 mL</td> <td>5.7392 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2870 mL</td> <td>1.4348 mL</td> <td>2.8696 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.8696 mL	14.3480 mL	28.6961 mL	5 mM	0.5739 mL	2.8696 mL	5.7392 mL	10 mM	0.2870 mL	1.4348 mL	2.8696 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.17 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.17 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Iferanserin (S-MPEC) is a selective 5-HT receptor (serotonin receptor) antagonist with an affinity for 5-HT _{2A} receptor. Iferanserin has the potential for internal hemorrhoid disease treatment ^[1] .
IC₅₀ & Target	5-HT _{2A} Receptor
In Vitro	An intra-anal ointment application of Iferanserin might modify the vascular effects occurring in hemorrhoid disease and thereby reduce or eliminate the most frequently occurring symptoms of hemorrhoid disease ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Herold A, et al. Intra-anal lferanserlin 10 mg BID for hemorrhoid disease: a prospective, randomized, double-blind, placebo-controlled trial. Clin Ther. 2012 Feb;34(2):329-40.

Caution: Product has not been fully validated for medical applications. For research use only.

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