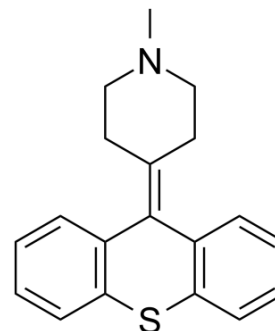


Pimethixene

Cat. No.:	HY-B1101
CAS No.:	314-03-4
Molecular Formula:	C ₁₉ H ₁₉ NS
Molecular Weight:	293.43
Target:	5-HT Receptor; Histamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pimethixene is antihistamine and antiserotonergic compound, acts as an antimigraine agent. Pimethixene is a highly potent antagonist of 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, with pK _i s of 7.63, 10.22, 10.44, 8.42, 10.14, 8.19, 7.54, 8.61 and 9.38, respectively ^[1] .			
IC₅₀ & Target	5-HT _{2B} Receptor 10.44 (pKi)	5-HT _{2A} Receptor 10.22 (pKi)	5-HT _{2C} Receptor 8.42 (pKi)	5-HT _{1A} Receptor 7.63 (pKi)
	M ₂ receptor 9.38 (pKi)	M ₁ receptor 8.61 (pKi)	D ₂ receptor 8.19 (pKi)	DD _{4.4} receptor 7.54 (pKi)

REFERENCES

[1]. 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA