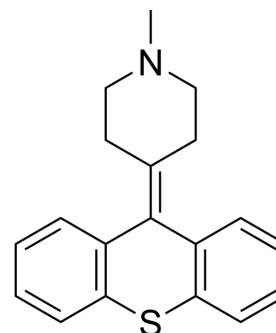


## Pimethixene

Cat. No.:	HY-B1101
CAS No.:	314-03-4
Molecular Formula:	C <sub>19</sub> H <sub>19</sub> 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

<b>Description</b>	Pimethixene is antihistamine and antiserotonergic compound, acts as an antimigraine agent. Pimethixene is a highly potent antagonist of 5-HT <sub>1A</sub> , 5-HT <sub>2A</sub> , 5-HT <sub>2B</sub> , 5-HT <sub>2C</sub> , histamine H <sub>1</sub> , dopamine D <sub>2</sub> and D <sub>4.4</sub> , as well as muscarinic M <sub>1</sub> and M <sub>2</sub> receptors, with pK <sub>i</sub> s of 7.63, 10.22, 10.44, 8.42, 10.14, 8.19, 7.54, 8.61 and 9.38, respectively <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	5-HT <sub>2B</sub> Receptor 10.44 (pKi)	5-HT <sub>2A</sub> Receptor 10.22 (pKi)	5-HT <sub>2C</sub> Receptor 8.42 (pKi)	5-HT <sub>1A</sub> Receptor 7.63 (pKi)
	M <sub>2</sub> receptor 9.38 (pKi)	M <sub>1</sub> receptor 8.61 (pKi)	D <sub>2</sub> receptor 8.19 (pKi)	DD <sub>4.4</sub> receptor 7.54 (pKi)

### REFERENCES

[1]. Schmitz B, et al. BF-1--a novel selective 5-HT<sub>2B</sub> 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