## Phenyltoloxamine

Cat. No.:	HY-B1733
CAS No.:	92-12-6
Molecular Formula:	C <sub>17</sub> H <sub>21</sub> NO
Molecular Weight:	255.35
Target:	Histamine Receptor; Sigma Receptor; Cytochrome P450
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICALACIUM		
Description	Phenyltoloxamine (Bistrimin) is an antihistamine agent with sedative and analgesic effects. Phenyltoloxamine also has potent Sigma-1 receptor binding affinity ( $K_i$ : 160 nM) <sup>[1][2][3]</sup> .	
IC₅₀ & Target	Stantion: Product has not been fully validated for medical applications. For research use only.16@nbd(%i)28-6898Fax: 609-228-5909E-mail: tech@MedChemExpress.com	
In Vitro	Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA Phenyltoloxamine (10-50 μM, 24 h) demonstrates cytotoxicity in EVSA-T cells <sup>[2]</sup> . Phenyltoloxamine exhibits potent Sigma 1 Receptor (S1R) binding affinity with a K <sub>i</sub> value of 160 nM <sup>[3]</sup> . Phenyltoloxamine (100 μM) inhibits human liver macrosaml CYP2D6 enzyme by 99.0% <sup>[4]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. Justin B.Hoekstra. Pharmacological Properties of a New Antihistaminic Agent, Phenyltoloxamine (Bristamin). Journal of the American Pharmaceutical Association (Scientific ed.). 1953, 42 (10), 587-593.

[2]. Brandes LJ, et al. Evidence that the antiestrogen binding site is a histamine or histamine-like receptor. Biochem Biophys Res Commun. 1985 Jan 31;126(2):905-10.

[3]. Youyi Peng, et al. Comprehensive 3D-QSAR Model Predicts Binding Affinity of Structurally Diverse Sigma 1 Receptor Ligands. J Chem Inf Model. 2019 Jan 28;59(1):486-497.

[4]. Sellers, et al. Use of inhibitors of CYP2D6 enzyme for the prevention of drug abuse. Patent, US6124282.

**Product** Data Sheet

