Methiothepin maleate

Cat. No.:	HY-101009
CAS No.:	19728-88-2
Molecular Formula:	$C_{24}H_{28}N_2O_4S_2$
Molecular Weight:	472.62
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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Product Data Sheet

BIOLOGICAL ACTIVITY		
IC₅₀ & Target	pKd: 7.10 (5-HT _{1A}), 7.28 (5HT _{1B}), 7.56 (5HT _{1C}), 6.99 (5HT _{1D}) ^[1] , 7.0 (5-HT _{5A}), 7.8 (5-HT _{5B}), 8.74 (5-HT ₆), 8.99 (5-HT ₇) ^[3] pKi: 8.50 (5-HT _{2A}), 8.68 (5-HT _{2B}), 8.35 (5-HT _{2C}) ^[2]	
In Vitro	Methiothepin maleate is a 5-HT receptor antagonist, with pK _d s of 7.10, 7.28, 7.56, and 6.99 for 5-HT _{1A} , 5HT _{1B} , 5HT _{1C} , 5HT _{1D} ^[1] . Methiothepin mesylate also shows pK _d s of 7.0, 7.8, 8.74, and 8.99 for 5-HT _{5A} , 5-HT _{5B} , 5-HT ₆ , and 5-HT ₇ , respectively ^[2] . Methiothepin exhibits high affinity at 5-HT _{2A} , 5HT _{2B} , and 5HT _{2C} with pK _i s of 8.50, 8.68, and 8.35, respectively ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Schoeffter P, et al. 5-Hydroxytryptamine (5-HT)-induced endothelium-dependent relaxation of pig coronary arteries is mediated by 5-HT receptors similar to the 5-HT1D receptor subtype. J Pharmacol Exp Ther. 1990 Jan;252(1):387-95.

[2]. Knight AR, et al. Pharmacological characterisation of the agonist radioligand binding site of 5-HT(2A), 5-HT(2B) and 5-HT(2C) receptors. Naunyn Schmiedebergs Arch Pharmacol. 2004 Aug;370(2):114-23. Epub 2004 Jul 30.

[3]. Hoyer D, et al. International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (Serotonin). Pharmacol Rev. 1994 Jun;46(2):157-203.

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

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