

Datasheet

Inhibitors / Agonists / Screening Libraries

A DRUG SCREENING EXPERT

Product Name : Metoprine
Catalog Number : T8548
CAS Number : 7761-45-7
Molecular Formula : C₁₁H₁₀Cl₂N₄
Molecular Weight : 269.13

Description: Metoprine is a potent inhibitor of histamine N-methyltransferase (HMT), with potential antineoplastic activity.

Storage: 2 years -80°C in solvent; 3 years -20°C powder;

Receptor (IC50)	histamine N-methyltransferase	
	antifolate	

In vivo Activity

In mammals, histamine N-methyltransferase (HMT) is the sole enzyme responsible for degrading histamine in the brain. Metoprine, one of the most potent HMT inhibitors, can cross the blood-brain barrier and increase brain histamine levels by inhibiting HMT. Consequently, this compound can be a candidate for a prototype of drugs for the treatment of METH overdose[1].

Reference

1. Junichi Kitanaka, et al. Brain Histamine N-Methyltransferase As a Possible Target of Treatment for Methamphetamine Overdose. Drug Target Insights. 2016 Mar 2;10:1-7.
2. Samotaeva I S , Birioukova L M , Midzyanovskaya I S , et al. Metoprine induced behavioral modifications and brain regional histamine increase in WAG/Rij and Wistar rats[J]. Epilepsy Research, 2012, 101(1-2):148-156.

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