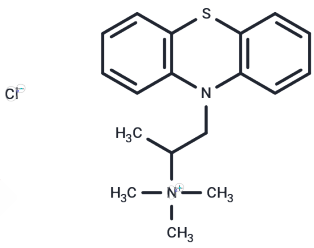
Data Sheet (Cat.No.T13144)

TargetMol

Thiazinamium chloride

Chemical Properties



CAS No. : 4320-13-2

Formula: C18H23ClN2S

Molecular Weight: 334.91

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Thiazinamium chloride possesses potent anticholinergic and antiallergic activity and inhibits synthesis of TxB2(IC50 value of 0.2 μM).
Targets(IC50)	Others,Cholinesterase (ChE)
In vitro	thiazinamium chloride and promethazine inhibits TxB2 synthesis by resting macrophages in a dose-dependent manner. Thiazinamium chloride inhibits TxBz synthesis but had no effect on the ingestion of zymosan particles. In contrast, chlorpromazine inhibits phagocytosis but not TxBz synthesis except at lo-3 M. Under the condition where indomethacin, a nown cyclooxygenase inhibitor, is inhibitory, promethazine but not thiazinamium chloride inhibits TxB2 synthesis from exogenous arachidonic acid. Treatment of macrophages with promethazine and chlorpromazine but not thiazinamium chloride results in a reduction in the oxidative burst during phagocytosis. Furthermore, the ability of thiazinamium chloride to selectively inhibit arachidonic acid metabolism may contribute to its bronchodilator/antiallergic activity.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9859 mL	14.9294 mL	29.8588 mL
5 mM	0.5972 mL	2.9859 mL	5.9718 mL
10 mM	0.2986 mL	1.4929 mL	2.9859 mL
50 mM	0.0597 mL	0.2986 mL	0.5972 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chang J, et al. Effects of thiazinamium chloride, promethazine and chlorpromazine on thromboxane B2 synthesis, phagocytosis and respiratory burst by rat alveolar macrophages. Biochem Pharmacol. 1983 Sep 15;32(18):2671-7.

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