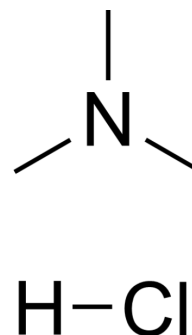


Trimethylammonium chloride

Cat. No.:	HY-Y0504
CAS No.:	593-81-7
Molecular Formula:	C ₃ H ₁₀ ClN
Molecular Weight:	95.57
Target:	Endogenous Metabolite; Cholinesterase (ChE)
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (436.02 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	10.4635 mL	52.3177 mL	104.6353 mL
5 mM	2.0927 mL	10.4635 mL	20.9271 mL
10 mM	1.0464 mL	5.2318 mL	10.4635 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Trimethylammonium chloride is an endogenous metabolite that inhibits deacetylation. Trimethylammonium chloride is a non-competitive inhibitor of acetylcholinesterase^{[1][2]}.

REFERENCES

- [1]. KRUPKA RM. ACETYLCHOLINESTERASE: TRIMETHYLAMMONIUM-ION INHIBITION OF DEACETYLATION. *Biochemistry*. 1964 Nov;3:1749-54.
- [2]. HOLTON P, et al. The specificity of the trimethylammonium group in acetylcholine. *Br J Pharmacol Chemother*. 1949 Jun;4(2):190-6.

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

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