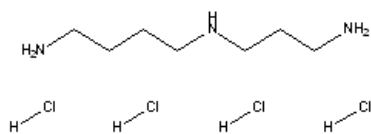


Catalog Number: 100474

Spermine tetrahydrochloride

Structure:



Sequence: $\text{H}_2\text{N}(\text{CH}_2)_3\text{NH}(\text{CH}_2)_4\text{NH}(\text{CH}_2)_3\text{NH}_2 \cdot 4\text{HCl}$

Molecular Formula: $\text{C}_{10}\text{H}_{26}\text{N}_4 \cdot 4\text{HCl}$

Molecular Weight: 348.19

CAS # : 306-67-2

Synonym: N,N'-bis(3-Aminopropyl)-1,4butanediamine tetrahydrochloride

Physical Description: White solid

Description: Binds to the polyamine modulatory site of the NMDA receptor, attenuating both NMDA and quisqualate mediated responses *in vivo*³; enhances strychnine-insensitive glycine binding.²

Solubility: Soluble in water (100 mg/ml - clear, colorless solution)

Availability:

Catalog #	Description	Size
100474	Spermine Tetrahydrochloride	1 gm 5 gm

References:

1. *Merck Index 12th Ed.*, No. 8894
2. Sacaan,A.I. et al. "Spermine enhances binding to the glycine site associated with the N-methyl-D-aspartate receptor complex." *Mol.Pharmacol.*, **36**, 836-839 (1989)
3. Roa,T.S. et al. "The polyamines, spermine and spermidine, negatively modulate N-methyl-D-aspartate (NMDA) and quisqualate receptor responses in vivo: cerebellar cyclic GMP measurements." *Neurochem Int.*,**16**, 199-206 (1990)