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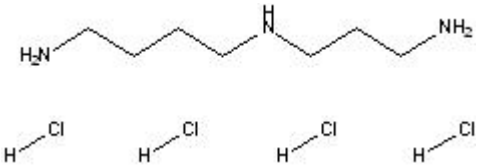
TECHNICAL INFORMATION

Catalog Number: 100474
Spermine tetrahydrochloride

Structure:



Sequence: $H_2N(CH_2)_3NH(CH_2)_4NH(CH_2)_3NH_2 \cdot 4HCl$
Molecular Formula: $C_{10}H_{26}N_4 \cdot 4HCl$
Molecular Weight: 348.19
CAS # : 306-67-2
Synonym: N,N'-bis(3-Aminopropyl)-1,40butanediamine 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)
Availibility:

Catolog #	Description	Size
100474	Spermine Tetrahydrochloride	1 gm 5 gm

References:

– *Merck Index* **12th Ed**., No. 8894
– 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)
– Roa,T.S. et al. "The polyamines, spermine and spermindine, negatively modulate N-methyl-D-aspartate (NMDA) and quisqualate receptor responses in vivo: cerebellar cyclic GMP measurements." *Neurochem Int.,***16,** 199-206 (1990)