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DATASHEET

Spermine

Product overview

Name	Spermine
Cat No	HB0588
Purity	>99%
Description	NMDA receptor modulator / ASIC1a channel sensitizer

Images



Biological Data

Biological description	Endogenous polyamine NMDA receptor activity modulator with agonist and antagonist actions. Binds at the polyamine site. Sensitizes ASIC1a channels to acidosis and exacerbates ischemic injury of neurones.
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Solubility & Handling

Storage instructions	+4 °C (desiccate)
Solubility overview	Soluble in water (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	<i>N</i> ¹ , <i>N</i> ⁴ -Bis(3-aminopropyl)butane-1,4-diamine
Molecular Weight	202.34
Chemical structure	
Molecular Formula	C ₁₀ H ₂₆ N ₄
CAS Number	71-44-3
PubChem identifier	1103
SMILES	NCCCNCCCCNCCCN
InChi	InChI=1S/C10H26N4/c11-5-3-9-13-7-1-2-8-14-10-4-6-12/h13-14H,1-12H2
InChiKey	PFNFFQXMRSDOHW-UHFFFAOYSA-N
MDL number	MFCD00008215

References

Extracellular spermine exacerbates ischemic neuronal injury through sensitization of ASIC1a channels to extracellular acidosis.

Duan B *et al* (2011) J Neurosci 31(6)

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Polyamines modulate the neurotoxic effects of NMDA in vivo.

Munir M *et al* (1993) Brain Res 616(1-2)

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Interactions of polyamines with ion channels.

Williams K (1997) Biochem J 325 (Pt 2)

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