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DATASHEET

Arcaine sulfate

Product overview

Name	Arcaine sulfate
Cat No	HB0118
Biological action	Antagonist
Purity	>99%
Description	Competitive NMDA receptor antagonist / NOS inhibitor

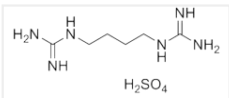
Biological Data

Biological description	Competitive NMDA receptor antagonist. Binds at the polyamine site. Also a NOS (Nitric oxide synthase) inhibitor. Reduces NMDA single-channel currents in a voltage-dependent manner.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (25mM)
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,N</i> -1,4-Butanediylbisguanidine sulfate
Molecular Weight	270.31
Chemical structure	
Molecular Formula	C ₆ H ₁₆ N ₆ ·H ₂ SO ₄
CAS Number	14923-17-2
PubChem identifier	119020
SMILES	C(CCN=C(N)N)CN=C(N)N.OS(=O)(=O)O
InChiKey	RWTGFMPOODRXIM-UHFFFAOYSA-N

References

Structure-activity relationships of arginine analogues on nitric oxide synthase activity in the rat brain.

Yokoi I *et al* (1994) *Neuropharmacology* 33(11)

PubMedID [7532812](#)

Arcaine is a competitive antagonist of the polyamine site on the NMDA receptor.

Reynolds IJ (1990) *Eur J Pharmacol* 177(3)

PubMedID [2155812](#)

Investigation of the actions and antagonist activity of some polyamine analogues in vivo.

Doyle KM *et al* (1998) Br J Pharmacol 124(2)

PubMedID [9641557](#)

Spermine and arcaine block and permeate N-methyl-D-aspartate receptor channels.

Araneda RC *et al* (1999) Biophys J 76(6)

PubMedID [10354418](#)
