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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

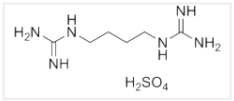
Biological Data

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.

Solubility & Handling

Solubility overview	Soluble in water (25mM)
Storage instructions	Room temperature
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	*N,N*-1,4-Butanediyl*bis*guanidine sulfate
Molecular Weight	270.31
Chemical structure	
Molecular Formula	$C_6H_{16}N_6.H_2SO_4$
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