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DATASHEET

Naspm trihydrochloride

Product overview

Name	Naspm trihydrochloride
Cat No	HB0441
Biological action	Antagonist
Purity	>95%
Description	Selective GluA2- lacking, Ca ²⁺ permeable AMPA / kainate receptor antagonist

Images



Biological Data

Biological description	Selective GluA2- lacking, Ca ²⁺ permeable AMPA/kainate receptor antagonist. Synthetic analogue of Joro spider toxin. Reduces excitatory post synaptic currents in infralimbic neurons.
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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	N-[3-[[4-[(3-Aminopropyl)amino]butyl]amino]propyl]-1-naphthaleneacetamide trihydrochloride
Molecular Weight	479.91
Chemical structure	
Molecular Formula	C ₂₂ H ₃₄ N ₄ O.3HCl
CAS Number	1049731-36-3
PubChem identifier	16219727
SMILES	C1=CC=C2C(=C1)C=CC(=O)NCCCNC(CCN)CCCN.Cl.Cl.Cl
InChi	InChI=1S/C22H34N4O.3ClH/c23-12-6-15-24-13-3-4-14-25-16-7-17-26-22(27)18-20-10-5-9-19-8-1-2-11-21(19)20;;/h1-2,5,8-11,24-25H,3-4,6-7,12-18,23H2,(H,26,27);3*1H

References

Blocking effect of 1-naphthyl acetyl spermine on Ca(2+)-permeable AMPA receptors in cultured rat hippocampal neurons.

Koike M *et al* (1997) *Neurosci Res* 29(1)

PubMedID [9293490](#)

ABA renewal involves enhancements in both GluA2-lacking AMPA receptor activity and GluA1 phosphorylation in the lateral amygdala.

Park K *et al* (2014) *PLoS One* 9(6)

PubMedID [24925360](#)

Fear extinction induces mGluR5-mediated synaptic and intrinsic plasticity in infralimbic neurons.

Sepulveda-Orengo MT *et al* (2013) *J Neurosci* 33(17)

PubMedID [23616528](#)
