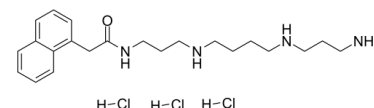


Data Sheet

Product Name:	Naspm (trihydrochloride)
Cat. No.:	CS-3630
CAS No.:	1049731-36-3
Molecular Formula:	C ₂₂ H ₃₇ Cl ₃ N ₄ O
Molecular Weight:	479.91
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : 6.4 mg/mL (13.34 mM; Need ultrasonic); H ₂ O : 50 mg/mL (104.19 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Naspm trihydrochloride (1-Naphthylacetyl spermine trihydrochloride), a synthetic analogue of Joro spider toxin, is a calcium permeable AMPA (CP-AMPA) receptors antagonist. **In Vitro:** NASPM selectively suppresses the inwardly rectifying and Ca²⁺-permeable AMPA receptors expressed in type II neurons. It has no effect on AMPA receptors in type I neurons. At -60 mV, NASPM suppresses AMPA receptors in type II neurons with an IC₅₀ value of 0.33 μM. The blocking effect of NASPM on the Ca²⁺-permeable AMPA receptors is use and voltage-dependent^[1].

References:

[1]. Koike M, et al. Blocking effect of 1-naphthyl acetyl spermine on Ca²⁺-permeable AMPA receptors in cultured rat hippocampal neurons. Neurosci Res. 1997 Sep;29(1):27-36.

CAIndexNames:

1-Naphthaleneacetamide, N-[3-[[4-[(3-aminopropyl)amino]butyl]amino]propyl]-, hydrochloride (1:3)

SMILES:

[H]Cl.[H]Cl.[H]Cl.O=C(NCCCNCCCCNCCCN)CC1=C2C=CC=CC2=CC=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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