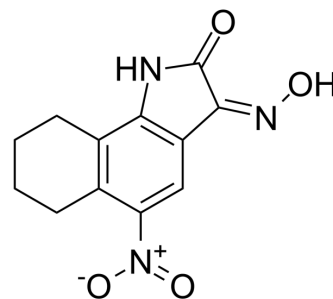


NS-102

Cat. No.:	HY-114427		
CAS No.:	136623-01-3		
Molecular Formula:	C ₁₂ H ₁₁ N ₃ O ₄		
Molecular Weight:	261.23		
Target:	iGluR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4 mg/mL (15.31 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.8280 mL	19.1402 mL	38.2804 mL
5 mM	0.7656 mL	3.8280 mL	7.6561 mL
10 mM	0.3828 mL	1.9140 mL	3.8280 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NS-102 is a selective kainate (GluK2) receptor antagonist. NS-102 is a potent GluR6/7 receptor antagonist^{[1][2][3]}.

In Vitro

Combination of NS-102 (10 μM) and GYKI 52466 (30 μM) prevents full loss of compound action potentials (CAPs) during oxygen and glucose deprivation (OGD) and increases CAP area recovery^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

NS-102 (20, 40 or 80 μmol/litre ; in the hippocampal CA3 region) significantly reduces Sevoflurane-induced hyperactivities^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Selva Baltan Tekkök, et al. Excitotoxic mechanisms of ischemic injury in myelinated white matter. *J Cereb Blood Flow Metab.* 2007 Sep;27(9):1540-52.

[2]. P Liang, et al. Sevoflurane activates hippocampal CA3 kainate receptors (GluK2) to induce hyperactivity during induction and recovery in a mouse model. *Br J Anaesth.*

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

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