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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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NMDAR/TRPM4-IN-2 free base

Cat. No.: HY-139192A

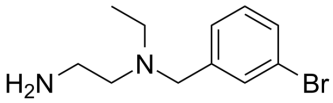
CAS No.: 1353979-43-7

Molecular Formula: $C_{11}H_{17}BrN_2$

Molecular Weight: 257.17

Target: iGluR; TRP Channel; ERK

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling; MAPK/ERK Pathway; Stem Cell/Wnt



Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (388.85 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8885 mL	19.4424 mL	38.8848 mL
	5 mM	0.7777 mL	3.8885 mL	7.7770 mL
	10 mM	0.3888 mL	1.9442 mL	3.8885 mL

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

BIOLOGICAL ACTIVITY

Description

NMDAR/TRPM4-IN-2 free base (compound 8) is a potent NMDAR/TRPM4 interaction interface inhibitor. NMDAR/TRPM4-IN-2 free base shows neuroprotective activity. NMDAR/TRPM4-IN-2 free base prevents NMDA-induced cell death and mitochondrial dysfunction in hippocampal neurons, with an IC_{50} of 2.1 μM. NMDAR/TRPM4-IN-2 free base protects mice from MCAO-induced brain damage and NMDA-induced retinal ganglion cell loss[1].

In Vitro

NMDAR/TRPM4-IN-2 free base (compound 8) (0-10 μM) reduces the interactions of GluN2A and GluN2B with TRPM4 in a dose-dependent manner[1].

NMDAR/TRPM4-IN-2 free base eliminates the CREB shutoff pathway and restores ERK1/2 activation and IEG induction while sparing the synaptic activity-driven, transcription-promoting activities of NMDARs[1].

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

REFERENCES

[1]. Yan J, et al. Coupling of NMDA receptors and TRPM4 guides discovery of unconventional neuroprotectants. Science. 2020 Oct 9;370(6513):eaay3302.

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