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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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IEM-1754

Cat. No.: HY-100547

CAS No.: 162831-31-4

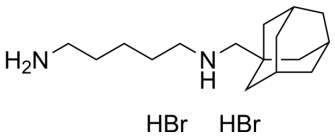
Molecular Formula: $C_{16}H_{32}Br_2N_2$

Molecular Weight: 412.25

Target: iGluR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (242.57 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4257 mL	12.1286 mL	24.2571 mL
	5 mM	0.4851 mL	2.4257 mL	4.8514 mL
	10 mM	0.2426 mL	1.2129 mL	2.4257 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.25 mg/mL (3.03 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (3.03 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (3.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

IEM-1754, a dicationic adamantane derivative, is a potent blocker of open channels of native ionotropic glutamate receptors including quisqualate-sensitive receptors in insect muscles, NMDAR in cultured rat cortical neurons, and AMPAR in freshly isolated hippocampal cells. IEM-1754 shows anticonvulsant potency in vivo[1][2].

REFERENCES

[1]. Tikhonov DB, et al. Voltage-dependent block of native AMPA receptor channels by dicationic compounds. Br J Pharmacol. 2000 Jan;129(2):265-74.

[2]. Lukomskaia NIa, et al. [Comparison of the anticonvulsant activity of organic mono- and di-cations and their potential to inhibit NMDA and AMPA glutamate receptors]. Ross Fiziol Zh Im I M Sechenova. 2002 Sep;88(9):1161-71. Russian.

[3]. D B Tikhonov, et al. Voltage-dependent block of native AMPA receptor channels by dicationic compounds. Br J Pharmacol. 2000 Jan;129(2):265-74.

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