(Rac)-NMDAR antagonist 1

Cat. No.: HY-111500

CAS No.: 2435557-99-4

Molecular Formula: $C_{20}H_{20}BrN_3O_2$

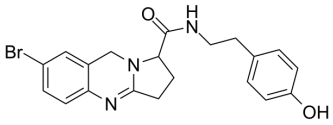
Molecular Weight: 414.3

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 : 5 mg/mL (12.07 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4137 mL	12.0685 mL	24.1371 mL
5 mM	0.4827 mL	2.4137 mL	4.8274 mL
10 mM	0.2414 mL	1.2069 mL	2.4137 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: ≥ 0.5 mg/mL (1.21 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.5 mg/mL (1.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Rac)-NMDAR antagonist 1 is the racemate of NMDAR antagonist 1. NMDAR antagonist 1 is a potent and orally bioavailable NR2B-selective NMDAR antagonist[1].

IC_{50} & Target

NMDAR[1]

REFERENCES

[1]. Zhang L, et al. Design, synthesis and bioevaluation of 1,2,3,9-tetrahydropyrrolo[2,1-b]quinazoline-1-carboxylic acid derivatives as potent neuroprotective agents. Eur J

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