(S)-SNAP5114

Cat. No.: HY-103504

CAS No.: 157604-55-2

Molecular Formula: $C_{30}H_{35}NO_6$

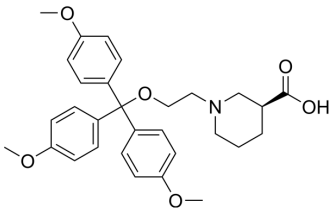
Molecular Weight: 505.6

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (197.78 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.9778 mL	9.8892 mL	19.7785 mL
5 mM	0.3956 mL	1.9778 mL	3.9557 mL
10 mM	0.1978 mL	0.9889 mL	1.9778 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: ≥ 2.5 mg/mL (4.94 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.94 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.94 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(S)-SNAP5114 is a selective GABA transport inhibitor, with IC_{50} values of 5 μM and 21 μM for hGAT-3 and rGAT-2, respectively. (S)-SNAP5114 is an anticonvulsant agent[1][2].

IC_{50} & Target

IC50: 5 μM (hGAT-3), 21 μM (rGAT-2)[1].

CUSTOMER VALIDATION

- iScience. 2023 Mar.

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REFERENCES

[1]. Borden LA, et al. Cloning of the human homologue of the GABA transporter GAT-3 and identification of a novel inhibitor with selectivity for this site. Receptors Channels. 1994;2(3):207-13.

[2]. Borden LA, et al. GABA transporter heterogeneity: pharmacology and cellular localization. Neurochem Int. 1996 Oct;29(4):335-56.

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