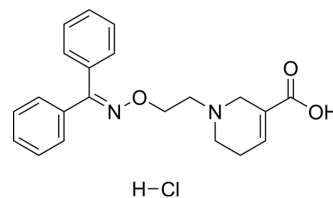


NNC-711 hydrochloride

Cat. No.:	HY-103506
CAS No.:	145645-62-1
Molecular Formula:	C ₂₁ H ₂₃ ClN ₂ O ₃
Molecular Weight:	386.87
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	-20°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

H₂O : 4 mg/mL (10.34 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.5848 mL	12.9242 mL	25.8485 mL
	5 mM		0.5170 mL	2.5848 mL	5.1697 mL
	10 mM		0.2585 mL	1.2924 mL	2.5848 mL

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

BIOLOGICAL ACTIVITY

Description

NNC-711 (hydrochloride) is a potent and selective inhibitor of GAT-1 (GABA transporter 1) with an IC₅₀ of 40 nM for hGAT-1. NNC-711 has anticonvulsant and analgesic effect in vivo and exhibits cognition-enhancing activity^{[1][2][3]}.

REFERENCES

- [1]. Borden LA, et al. Tiagabine, SK&F 89976-A, CI-966, and NNC-711 are selective for the cloned GABA transporter GAT-1. *Eur J Pharmacol.* 1994 Oct 14;269(2):219-24.
- [2]. O'Connell AW, et al. Anti-ischemic and cognition-enhancing properties of NNC-711, a gamma-aminobutyric acid reuptake inhibitor. *Eur J Pharmacol.* 2001 Jul 13;424(1):37-44.
- [3]. Li Y, et al. Analgesic effect of intrathecally γ-aminobutyric acid transporter-1 inhibitor NO-711 administrating on neuropathic pain in rats. *Neurosci Lett.* 2011 Apr 20;494(1):6-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA