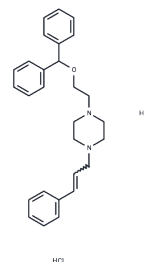


GBR 12783 dihydrochloride

Chemical Properties

CAS No. :	67469-75-4
Formula:	C ₂₈ H ₃₄ Cl ₂ N ₂ O
Molecular Weight:	485.49
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	GBR 12783 dihydrochloride (GBR12783 2HCl) is a specific, potent and selective dopamine uptake inhibitor. GBR 12783 dihydrochloride inhibits the [3H]dopamine uptake by rat and mice striatal synaptosomes with IC ₅₀ s of 1.8 nM and 1.2 nM, respectively. GBR 12783 dihydrochloride can improve memory performance and increase hippocampal acetylcholine release in rats.
Targets(IC ₅₀)	Others
In vivo	GBR 12783 (10 mg/kg; intraperitoneal injection; for 100 minutes; male Sprague-Dawley rats) treatment reinforces specifically dopamine transmission only at synapses instantaneously active, increases hippocampal ACh release and improves memory performance in a passive avoidance task[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (92.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0598 mL	10.2989 mL	20.5977 mL
5 mM	0.412 mL	2.0598 mL	4.1195 mL
10 mM	0.206 mL	1.0299 mL	2.0598 mL
50 mM	0.0412 mL	0.206 mL	0.412 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Nail-Boucherie K, et al. The specific dopamine uptake inhibitor GBR 12783 improves learning of inhibitory avoidance and increases hippocampal acetylcholine release. *Brain Res Cogn Brain Res*. 1998 Oct;7(2):203-5.

Bonnet JJ, et al. GBR 12783, a potent and selective inhibitor of dopamine uptake: biochemical studies in vivo and ex vivo. *Eur J Pharmacol*. 1986 Feb 18;121(2):199-209.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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