## GBR 12783 dihydrochloride

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Cat. No.:	HY-100968	
CAS No.:	67469-75-4	
Molecular Formula:	C <sub>28</sub> H <sub>34</sub> Cl <sub>2</sub> N <sub>2</sub> O	
Molecular Weight:	485.49	
Target:	Dopamine Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	HCI
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

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SIOLOGICAL ACTIV			
Description	GBR 12783 dihydrochloride is a specific, potent and selective dopamine uptake inhibitor that inhibits the [ <sup>3</sup> H]dopamine uptake by rat and mice striatal synaptosomes with IC <sub>50</sub> s of 1.8 nM and 1.2 nM, respectively. GBR 12783 dihydrochloride can improve memory performance and increase hippocampal acetylcholine release in rats <sup>[1][2]</sup> .		
n 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Male Sprague-Dawley rats (180-200 g) <sup>[1]</sup>	
	Dosage:	10 mg/kg	
	Administration:	Intraperitoneal injection; for 100 minutes	

For a moderate electric shock intensity (0.4 mA), improveed retention performance,

## REFERENCES

Result:

[1]. 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.

increased hippocampal acetylcholine release in vivo.

[2]. 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.

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

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