GBR 12783

Cat. No.: HY-W008610
CAS No.: 67469-57-2
Molecular Formula: C₂₈H₃₂N₂O
Molecular Weight: 412.57
Target: Dopamine Receptor
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
GBR 12783 is a specific, potent and selective dopamine uptake inhibitor that inhibits the [³H]dopamine uptake by rat and mice striatal synaptosomes with IC₅₀s of 1.8 nM and 1.2 nM, respectively. GBR 12783 can improve memory performance and increase hippocampal acetylcholine release in rats[¹][²].

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].

Animal Model: Male Sprague-Dawley rats (180-200 g)[¹]
Dosage: 10 mg/kg
Administration: Intraperitoneal injection; for 100 minutes
Result: For a moderate electric shock intensity (0.4 mA), improved retention performance, increased hippocampal acetylcholine release in vivo.

REFERENCES


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

www.MedChemExpress.com