Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

GBR 12935 (dihydrochloride)

Catalog No: tcsc3130

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
67469-81-2

Formula:
$C_{28}H_{36}Cl_2N_2O$

Pathway:
Neuronal Signaling

Target:
Dopamine Transporter

Purity / Grade:
>98%

Solubility:
DMSO : 20 mg/mL (41.03 mM; Need ultrasonic and warming)

Observed Molecular Weight:
487.5

Product Description

GBR 12935 2Hcl is a potent, and selective dopamine reuptake inhibitor.

IC50 value:

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Target: dopamine reuptake inhibitor

in vitro: The calculated Kd of [3H]GBR-12935 binding to CYP2D6 was 42.2 nM, indicating that GBR-12935 has a high affinity for CYP2D6. The binding of [3H]GBR-12935 to CYP2D6 was decreased partially by substrates or inhibitors of CYP2D isoforms (quinine, quinidine, propranolol, bufuralol, imipramine, and desipramine) [1]. Co-perfusion of 100 microM GBR 12909 or GBR 12935 with either 100 microM sulpiride or raclopride produced a significant reduction in the GBR 12909 or GBR 12935 induced increase in the extracellular levels of dopamine to basal levels. In vitro, GBR 12909 (1-9 nM) dose-dependently inhibited active uptake of [3H]dopamine in homogenates of the nucleus accumbens [2].

in vivo: GBR 12935 elevated locomotion to a greater extent in C57BL/6J mice at the maximally active dose of 10 mg/kg. Locomotor stimulation by GBR 12935 remained consistent in both strains with repeated injections. DBA/2J mice became sensitized to cocaine-induced stereotypy with repeated injections. Cocaine induced no stereotypy in C57BL/6J mice on any test day. No stereotypies were induced by GBR 12935 in either strain on any test day [3].