Product Data Sheet

Product Name: GBR 12935
Cat. No.: GC36126

Chemical Properties

Cas. No.	76778-22-8		
SMILES	N1(CCOC(C2=CC=CC=C2)C3=CC=CC=C3)CCN(CCCC4=CC=CC=C4)CC1		
Formula	$C_{28}H_{34}N_2O$	M.Wt	414.58
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	GBR 12935		

Background

GBR 12935 is an inhibitor of dopamine uptake that binds to the dopamine transporter (K_d = 27.2 nM).[1,2] It is selective for the dopamine transporter over the serotonin and norepinephrine transporters (K_ds = 940 and 310 nM, respectively).[1] In mice, it increases locomotor activity, but not stereotypic behavior, when administered at a dose of 10 mg/kg but induces gnawing at levels similar to other indirect dopamine agonists with an ED_{50} value of 17.1 mg/kg.[2,3]

1.Tatsumi, M., Groshan, K., Blakely, R.D., et al.Pharmacological profile of antidepressants and related compounds at human monoamine transportersEur. J. Pharmacol.340(2-3)249-258(1997) 2.Tirelli, E., and Witkin, J.M.Differential effects of direct and indirect dopamine agonists on the induction of gnawing in C57Bl/6J miceJ. Pharmacol. Exp. Ther.273(1)7-15(1995) 3.Tolliver, B.K., and Carney, J.M.Comparison of cocaine and GBR 12935: Effects on locomotor activity and stereotypy in two inbred mouse strainsPharmacol. Biochem. Behav.48(3)733-739(1994)

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