

Product Data Sheet

Product Name: SB 243213

Cat. No.: GC61268

Chemical Properties

Cas. No. 200940-22-3

SMILES O=C(N1CCC2=C1C=C(C(F)(F)F)C(C)=C2)NC3=CC=C(OC4=CC=CN=C4C)N=C3

Formula $C_{22}H_{19}F_3N_4O_2$ M.Wt 428.41

Solubility DMSO : 125 mg/mL (291.78 mM; Storage Store at -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

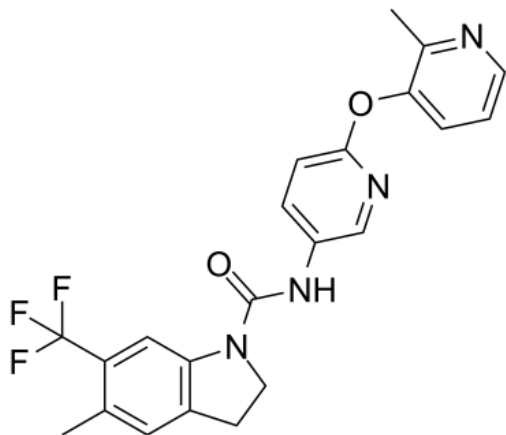
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

SB 243213 is an orally active, selective and high-affinity 5-HT_{2C} receptor antagonist with a pK_i of 9.37 and a pK_b of 9.8 for human 5-HT_{2C} receptor. SB 243213 shows greater than a 100-fold selectivity over a wide range of neurotransmitter receptors, enzymes and ion channels. SB 243213 has improved anxiolytic profile and has the potential for schizophrenia and motor disorders[1].

SB 243213 shows little affinity (pK_i<6) for cloned human 5-HT_{1A}, 5-HT_{1B}, 5-HT_{1E}, 5-HT_{1F} and 5-HT₇ receptors. It shows weak affinity (pK_i<6.5) for the cloned human 5-HT_{1D} and D₃ receptors and moderate affinity (pK_i=6.7) for the cloned human D₂ receptor[1].

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SB 243213 (0.1-10 mg/kg, p.o. 1 h pre-test) dose-dependently and significantly increases the amount of time rats spent in social interaction over 15 min under brightly lit conditions and in an unfamiliar test box[1]. SB 243213 (0.3 mg/kg; p.o.; 1 h pre-test) significantly increases time spent in social interaction[1]. Animal Model: Male Sprague-Dawley experimentally naive rats (220-300 g)[1]

[1]. Wood MD, et al. SB-243213; a selective 5-HT_{2C} receptor inverse agonist with improved anxiolytic profile: lack of tolerance and withdrawal anxiety. *Neuropharmacology*. 2001 Aug;41(2):186-99.

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