

Product Data Sheet

Product Name: GR 125743

Cat. No.: GC61464

Chemical Properties

Cas. No. 148547-33-5

SMILES O=C(C1=CC=C(C(C)=C1)C2=CC=NC=C2)NC3=CC=C(C(N4CCN(CC4)C)=C3)OC

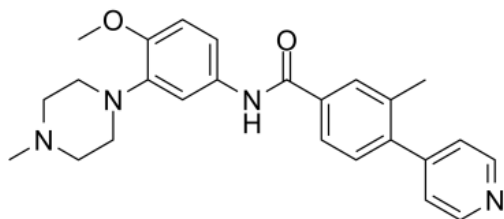
Formula $C_{25}H_{28}N_4O_2$ M.Wt 416.52

Solubility DMSO: 100 mg/mL (240.08 mM) Storage 4°C, protect from light

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.

Structure



Background

GR 125743 is a selective 5-HT_{1B/1D} receptor antagonist, with pK_is of 8.85 and 8.31 for wild-type h5-HT_{1B} and wild-type h5-HT_{1D}, respectively. GR 125743 is used for the research of Parkinson's disease and cardiovascular diseases[1][2].

GR 125743 has a K_d of 0.61 nM for h5-HT_{1B}[1].

GR 125743 (0.3 mg/kg; i.p.) produces significant decreases in extracellular 5-HT in the frontal cortex

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

Product Data Sheet

of the conscious guinea pig[2]. Animal Model: Male Dunkin Hartley guinea-pigs (350-450 g)[2]

[1]. T Wurch, et al. Induction of a high-affinity ketanserin binding site at the 5-Hydroxytryptamine(1B) receptor by modification of its carboxy-terminal intracellular portion. Characterization of human serotonin 1D and 1B receptors using [3H]-GR-125743, a novel radiolabelled serotonin 5HT1D/1B receptor antagonist. *Biochem Pharmacol.* 2000 May 1;59(9):1117-21. [2]. Roberts, C., et al. The role of 5-HT1B/1D receptors in the modulation of 5-hydroxytryptamine levels in the frontal cortex of the conscious guinea pig. *European Journal of Pharmacology.* 1997 May 12;326(1):23-30.

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