

GR 113808

Chemical Properties

CAS No. : 144625-51-4

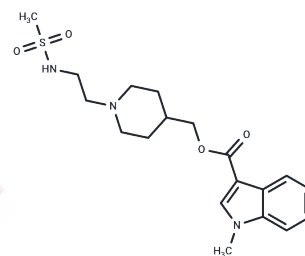
Formula: C₁₉H₂₇N₃O₄S

Molecular Weight: 393.5

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	GR 113808 is a selective 5-HT ₄ receptor antagonist that inhibits 5-HT _{1B} , 5-HT _{2A} , 5-HT _{2C} , and 5-HT ₃ receptors, and attenuates dopamine release.
Targets(IC ₅₀)	5-HT Receptor
In vivo	Daily administration of tegaserod increased motility in inflamed colons of guinea pigs and mice, whereas administration of GR 113808 (1 mg/kg) disrupted motility in animals without colitis[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (76.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (5.08 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5413 mL	12.7065 mL	25.413 mL
5 mM	0.5083 mL	2.5413 mL	5.0826 mL
10 mM	0.2541 mL	1.2706 mL	2.5413 mL
50 mM	0.0508 mL	0.2541 mL	0.5083 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Spohn SN, et al. Protective Actions of Epithelial 5-Hydroxytryptamine 4 Receptors in Normal and Inflamed Colon. *Gastroenterology*. 2016 Nov;151(5):933-944.e3.

Gale JD, et al. GR113808: a novel, selective antagonist with high affinity at the 5-HT₄ receptor. *Br J Pharmacol*. 1994 Jan;111(1):332-8.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481