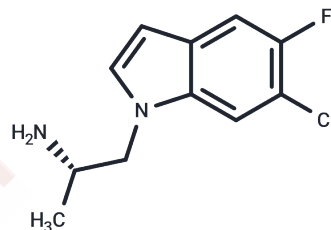


Ro60-0175

Chemical Properties

CAS No. : 169675-08-5
 Formula: C₁₁H₁₂ClFN₂
 Molecular Weight: 226.68
 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	Ro60-0175 a selective agonist for both the 5-hydroxytryptamine 2B (5-HT _{2B}) and 5-hydroxytryptamine 2C (5-HT _{2C})serotonin receptor subtypes, commonly used as fumarate salt. It has a role as a 5-hydroxytryptamine 2B receptor agonist and a 5-hydroxytryptamine 2C receptor agonist.
Targets(IC ₅₀)	5-HT Receptor
In vivo	Ghrelin administration increased operant responding for food reward and that this effect was attenuated by pre-administration of intraperitoneal or ventral tegmental area Ro60-0175.

Solubility Information

Solubility	DMSO: 120 mg/mL (529.38 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: 4 mg/mL (17.65 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	4.4115 mL	22.0575 mL	44.1151 mL
5 mM	0.8823 mL	4.4115 mL	8.823 mL
10 mM	0.4412 mL	2.2058 mL	4.4115 mL
50 mM	0.0882 mL	0.4412 mL	0.8823 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

Howell E, et al. Glucagon-Like Peptide-1 (GLP-1) and 5-Hydroxytryptamine 2c (5-HT_{2c}) Receptor Agonists in the Ventral Tegmental Area (VTA) Inhibit Ghrelin-Stimulated Appetitive Reward. *Int J Mol Sci.* 2019 Feb 19;20(4):889.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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