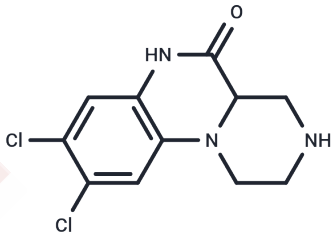
Data Sheet (Cat.No.T13332)

TargetMol

(Rac)-WAY-161503

Chemical Properties



CAS No. : 75704-24-4

Formula: C11H11Cl2N3O

Molecular Weight: 272.13

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	(Rac)-WAY-161503 is a selective and high-affinity agonist of the 5-HT2C receptor [Ki: 4 nM; EC50: 12 nM], exhibiting anti-obesity and antidepressant effects.
Targets(IC50)	5-HT Receptor
In vivo	In male C57BL/6J mice, (Rac)-WAY-161503 (3-30 mg/kg; i.p.) treatment dose-dependently decreases locomotor activity, an effect that is blocked by the 5-HT2C/2B antagonist SER-082. Additionally, in the 5-HT2A KO mice, the decreased locomotor activity produced by 10 mg/kg DOI is potentiated [1].

Solubility Information

Solubility	DMSO: 90 mg/mL (330.72 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: 3.3 mg/mL (12.13 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6747 mL	18.3736 mL	36.7471 mL
5 mM	0.7349 mL	3.6747 mL	7.3494 mL
10 mM	0.3675 mL	1.8374 mL	3.6747 mL
50 mM	0.0735 mL	0.3675 mL	0.7349 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

Halberstadt AL, et al. 5-HT(2A) and 5-HT(2C) receptors exert opposing effects on locomotor activity in mice. Neuropsychopharmacology. 2009 Jul;34(8):1958-67.

Welmaker GS, et al. Synthesis and 5-hydroxytryptamine (5-HT) activity of 2,3,4,4a-tetrahydro-1H-pyrazino[1,2-a] quinoxalin-5-(6H)ones and 2,3,4,4a,5,6-hexahydro-1H-pyrazino[1,2-a]quinoxalines. Bioorg Med Chem Lett. 2000 Sep 4;10(17):1991-4.