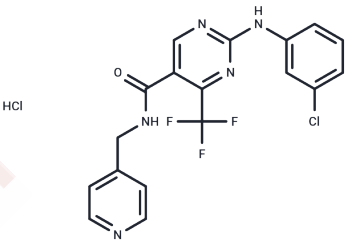
Data Sheet (Cat.No.T64394)

TargetMol

GW 833972A

Chemical Properties



CAS No. : 1092502-33-4

Formula: C18H14Cl2F3N5O

Molecular Weight: 444.24

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	GW 833972A is a selective CB2 receptor agonist that inhibits induced neural depolarization and citric acid-induced cough in an animal model.
Targets(IC50)	Cannabinoid Receptor
In vitro	GW 833972A (0.3-300 μ M; 10 min) inhibited Capsaicin induced Depolarization of human and guinea pigs, and also inhibited Prostaglandin E (2) and hypertonic saline induced Depolarization of isolated guinea pig Vagus nerve nerve.[1]
In vivo	GW 833972A (30 mg/kg, 2 mL/kg; intraperitoneal injection; single dose, administered 30 minutes before the experiment) inhibits conscious cough symptoms induced by citric acid in guinea pigs and reduces main bronchial blood protein exudation caused by Capsaicin.[1]

Solubility Information

Solubility	DMSO: 27.5 mg/mL (61.9 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 (4.5 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	2.251 mL	11.2552 mL	22.5104 mL
5 mM	0.4502 mL	2.251 mL	4.5021 mL
10 mM	0.2251 mL	1.1255 mL	2.251 mL
50 mM	0.045 mL	0.2251 mL	0.4502 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

Belvisi MG, et al. Inhibitory activity of the novel CB2 receptor agonist, GW833972A, on guinea-pig and human sensory nerve function in the airways. Br J Pharmacol. 2008;155(4):547-557.
Takheaw N, et al. Cannabinoid Receptor 1 Agonist ACEA and Cannabinoid Receptor 2 Agonist GW833972A Attenuates Cell-Mediated Immunity by Different Biological Mechanisms. Cells. 2023;12(6):848.
Sánchez-Zavaleta R, et al. Presynaptic cannabinoid CB2 receptors modulate [3 H]-Glutamate release at subthalamo-nigral terminals of the rat. Synapse. 2018;72(11):e22061.