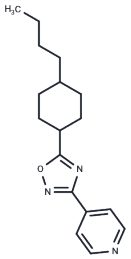
Data Sheet (Cat.No.T23204)

PSN 375963

Chemical Properties



CAS No. : 388575-52-8

Formula: C17H23N3O

Molecular Weight: 285.38

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	PSN 375963 (PSN 375963 hydrochloride) hydrochloride is a synthetic agonist of the endogenous ligand for GPR119.
Targets(IC50)	GPCR
In vitro	PSN 375963 is a potent GPR119 agonist with EC50s of 8.4 and 7.9 μM for human and mouse GPR119[1].
In vivo	PSN 375963 suppressed food intake in rats and reduced body weight gain and white adipose tissue deposition upon subchronic oral administration to high-fat-fed rats[2].

Solubility Information

Solubility	DMSO: 4 mg/mL (14.02 mM),Sonication is recommended. Ethanol: 24 mg/mL (84.1 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: 1 mg/mL (3.5 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	3.5041 mL	17.5205 mL	35.041 mL
5 mM	0.7008 mL	3.5041 mL	7.0082 mL
10 mM	0.3504 mL	1.752 mL	3.5041 mL
50 mM	0.0701 mL	0.3504 mL	0.7008 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

Ning Y, et al. Endogenous and synthetic agonists of GPR119 differ in signalling pathways and their effects on insulin secretion in MIN6c4 insulinoma cells. Br J Pharmacol. 2008;155(7):1056-1065.
Overton HA, et al. Deorphanization of a G protein-coupled receptor for oleoylethanolamide and its use in the discovery of small-molecule hypophagic agents. Cell Metab. 2006;3(3):167-175.