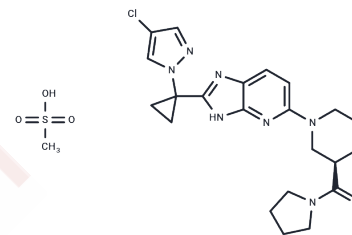


PF-06424439 methanesulfonate

Chemical Properties

CAS No. :	1469284-79-4
Formula:	C ₂₃ H ₃₀ ClN ₇ O ₄ S
Molecular Weight:	536.05
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	PF-06424439 methanesulfonate, an orally administered, potent, and selective imidazopyridine diacylglycerol acyltransferase 2 (DGAT2) inhibitor with an IC ₅₀ of 14 nM, demonstrates slow reversibility and time-dependent inhibition. It operates in a noncompetitive manner relative to the acyl-CoA substrate, marking its efficacy in targeting DGAT2.
Targets(IC ₅₀)	Acyltransferase, Transferase
In vivo	PF-06424439 methanesulfonate shows moderate clearance in rats following intravenous administration and moderate steady-state volume of distribution (V _{dss}) results in a short half-life[1].
Animal Research	PF-06424439 methanesulfonate (i.v.; 1 mg/kg) shows moderate clearance in rats following intravenous administration and moderate steady-state volume of distribution (V _{dss}) results in a short half-life[1]. PF-06424439 methanesulfonate (p.o.; 60 mg/kg/day; for 3 days) reduces plasma TG and cholesterol levels and decreases nonsignificant in circulating lipids in mice (Ldlr-/-)[1].

Solubility Information

Solubility	DMSO: 262.5 mg/mL (489.69 mM), Sonication is recommended. H ₂ O: 99 mg/mL (184.68 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: 5 mg/mL (9.33 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	1.8655 mL	9.3275 mL	18.655 mL
5 mM	0.3731 mL	1.8655 mL	3.731 mL
10 mM	0.1865 mL	0.9327 mL	1.8655 mL
50 mM	0.0373 mL	0.1865 mL	0.3731 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

Futatsugi K, et al. Discovery and Optimization of Imidazopyridine-Based Inhibitors of Diacylglycerol Acyltransferase 2 (DGAT2). *J Med Chem.* 2015 Sep 24;58(18):7173-85.

Pabst B, et al. Mechanistic Characterization of Long Residence Time Inhibitors of Diacylglycerol Acyltransferase 2 (DGAT2). *Biochemistry.* 2018 Dec 26;57(51):6997-7010.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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