

GPAT-IN-1

Chemical Properties

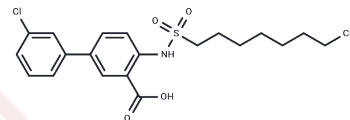
CAS No. : 1204347-51-2

Formula: C₂₁H₂₆ClNO₄S

Molecular Weight: 423.95

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	GPAT-IN-1 is a glycerol 3-phosphate acyltransferase (GPAT) inhibitor, which can be used to study obesity and diabetes.
Targets(IC50)	Others,Acyltransferase,Transferase
In vitro	GPAT-IN-1 (Compound 13b) inhibits GPAT with an IC50 of 8.9 μM [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (188.7 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 (7.78 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	2.3588 mL	11.7938 mL	23.5877 mL
5 mM	0.4718 mL	2.3588 mL	4.7175 mL
10 mM	0.2359 mL	1.1794 mL	2.3588 mL
50 mM	0.0472 mL	0.2359 mL	0.4718 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

Outlaw VK, et al. Design, Synthesis, and Evaluation of 4- and 5-Substituted o-(Octanesulfonamido)benzoic Acids as Inhibitors of Glycerol-3-Phosphate Acyltransferase. *Medchemcomm.* 2014;5(6):826-830.

Craig A.et,al.Novel Compounds, Pharmaceutical Compositions Containing Same, Methods of Use for Same, and Methods for Preparing Same:US20120083471A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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