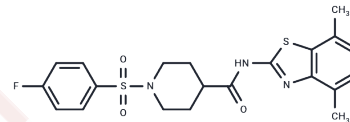


VU533

Chemical Properties

CAS No. : 923417-09-8
 Formula: C₂₁H₂₂FN₃O₃S₂
 Molecular Weight: 447.55
 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	VU533 (Nape-PLD activator) is a NAPE-PLD activator with an EC ₅₀ value of 0.30 μM. VU533 enhances NAPE-PLD activity and increases macrophage cytosolic burial. VU533 may be used in diseases associated with cardiometabolism.
Targets(IC ₅₀)	Phospholipase
In vitro	VU533 (NAPE-PLD activator) (0.1-30 μM; 24 h) is non-cytotoxic to RAW264.7 and HepG2 cells.[1] VU533 (0.1-30 μM; 24 h) increases NAPE-PLD activity in a concentration-dependent manner in RAW264.7 cells and HepG2 cells.[1] VU533 (10 μM; 6 h) increases efferocytosis of bone marrow-derived macrophages (BMDM) isolated from wild-type mice.[1]

Solubility Information

Solubility	DMSO: 16.67 mg/mL (37.25 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2344 mL	11.1719 mL	22.3439 mL
5 mM	0.4469 mL	2.2344 mL	4.4688 mL
10 mM	0.2234 mL	1.1172 mL	2.2344 mL
50 mM	0.0447 mL	0.2234 mL	0.4469 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

Zarrow JE, et al. Small Molecule Activation of NAPE-PLD Enhances Efferocytosis by Macrophages. bioRxiv [Preprint]. 2023 Feb 28:2023.01.25.525554.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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