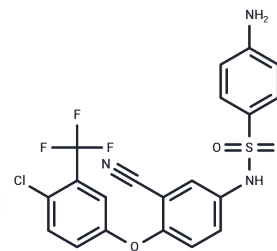


Lp-PLA2-IN-3

Chemical Properties

CAS No. :	2196245-16-4
Formula:	C ₂₀ H ₁₃ ClF ₃ N ₃ O ₃ S
Molecular Weight:	467.85
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	Lp-PLA2-IN-3 is a potent, orally bioactive lipoprotein-associated phospholipase A2 (Lp-PLA2) inhibitor, effectively inhibiting recombinant human [Lp-PLA2] with an IC ₅₀ value of 14 nM.
Targets(IC ₅₀)	Phospholipase
In vivo	Lp-PLA2-IN-3 (1 mg/kg; i.v.) treatment shows the CL, V _{ss} , and t _{1/2} were 3.1 mL/min/kg, 0.3 L/kg, 4 hours, respectively.[1] Lp-PLA2-IN-3 (3 mg/kg; p.o.) treatment shows the C _{max} , AUC _{0-24h} , t _{1/2} , and F were 0.27 µg/mL, 3.4 µg h/mL, 7.7 hours, and 35.5%, respectively.[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (534.36 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 (10.69 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	2.1374 mL	10.6872 mL	21.3744 mL
5 mM	0.4275 mL	2.1374 mL	4.2749 mL
10 mM	0.2137 mL	1.0687 mL	2.1374 mL
50 mM	0.0427 mL	0.2137 mL	0.4275 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

Liu Q, et al. Structure-Guided Discovery of Novel, Potent, and Orally Bioavailable Inhibitors of Lipoprotein-Associated Phospholipase A2. J Med Chem. 2017 Dec 28;60(24):10231-10244.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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