

Complement C5-IN-1

Chemical Properties

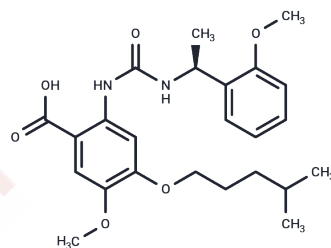
CAS No. : 2365402-67-9

Formula: C₂₄H₃₂N₂O₆

Molecular Weight: 444.52

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	Complement C5-IN-1 is a small-molecule inhibitor of complement component 5 protein (C5).
Targets(IC50)	Complement System
In vitro	Complement C5-IN-1 (Compound 7) interacts with C5 to prevent its cleavage by the C5 convertase and blocks zymosan-induced the membrane-attack complex (MAC) deposition in 50% human whole blood (IC50: 0.77μM)[1].

Solubility Information

Solubility	DMSO: 155 mg/mL (348.69 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 (7.42 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	2.2496 mL	11.2481 mL	22.4962 mL
5 mM	0.4499 mL	2.2496 mL	4.4992 mL
10 mM	0.225 mL	1.1248 mL	2.2496 mL
50 mM	0.045 mL	0.225 mL	0.4499 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

Jendza K, et al. A small-molecule inhibitor of C5 complement protein. Nat Chem Biol. 2019 Jul;15(7):666-668.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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