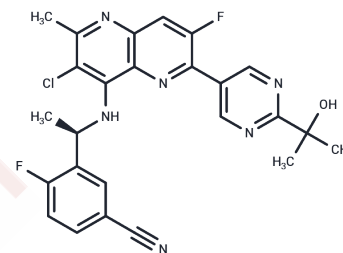


TNF- α -IN-2

Chemical Properties

CAS No. :	2074702-04-6
Formula:	C ₂₅ H ₂₁ ClF ₂ N ₆ O
Molecular Weight:	494.92
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	TNF- α -IN-2 is an effective and orally active TNF α inhibitor that distorts the TNF α trimer upon binding, causing abnormal signal transduction when it binds to TNFR1, and can be used to study rheumatoid arthritis.
Targets(IC50)	TNF
In vitro	TNF- α -IN-2 can inhibit the expression of E-selectin induced by soluble TNF α in HUVECs cells with an IC ₅₀ value of 30 nM. [1]
In vivo	Methods: TNF- α -IN-2 (5-25 mg/kg, oral) was used to treat mice 1 hour before TNF stimulation, and the changes in IL-6 levels in mice were measured. Results: TNF- α -IN-2 can inhibit TNF-induced IL-6 in mice. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (161.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (6.67 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	2.0205 mL	10.1026 mL	20.2053 mL
5 mM	0.4041 mL	2.0205 mL	4.0411 mL
10 mM	0.2021 mL	1.0103 mL	2.0205 mL
50 mM	0.0404 mL	0.2021 mL	0.4041 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

Xiao HY, et, al. Biologic-like In Vivo Efficacy with Small Molecule Inhibitors of TNF α Identified Using Scaffold Hopping and Structure-Based Drug Design Approaches. J Med Chem. 2020 Dec 1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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