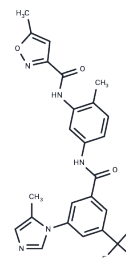


CSF1R-IN-21

Chemical Properties

CAS No. :	2935479-62-0
Formula:	C ₂₄ H ₂₀ F ₃ N ₅ O ₃
Molecular Weight:	483.44
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	CSF1R-IN-21 (compound 7e), a CSF-1R inhibitor, exhibits potent inhibition with an IC ₅₀ of 31 nM and effectively blocks CSF-1R auto-phosphorylation. It is utilized in researching neurodegenerative diseases [1].
Targets(IC ₅₀)	c-Fms
In vitro	CSF1R-IN-21 (compound 7e) at a concentration of 10 μM for 6 hours inhibits CSF-1R autophosphorylation and exhibits minimal cytotoxicity in the EOC 20 cell line according to cell viability assays [1]. At 50 μM for 4 hours, it shows good blood-brain barrier permeability in parallel artificial membrane permeability assays (PAMPA) [1]. The compound demonstrates good performance in plasma stability tests at 10 μM (0/30/120 min) [1]. In microsomal stability tests, CSF1R-IN-21 exhibits moderate stability at a concentration of 1 mM for 30 minutes [1]. In cell viability assays, the compound showed very low cytotoxic effects on the microglial cell line EOC 20 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0685 mL	10.3425 mL	20.6851 mL
5 mM	0.4137 mL	2.0685 mL	4.137 mL
10 mM	0.2069 mL	1.0343 mL	2.0685 mL
50 mM	0.0414 mL	0.2069 mL	0.4137 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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