

CSF1R-IN-26

Chemical Properties

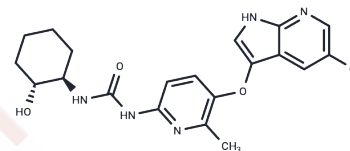
CAS No. : 3077238-23-1

Formula: C₂₀H₂₂ClN₅O₃

Molecular Weight: 415.87

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-26 (Compound III-1) is an inhibitor of CSF-1R with an IC ₅₀ of 20.07 nM. It promotes the polarization of M2 macrophages to M1 macrophages, inducing apoptosis in MC-38 cancer cells. CSF1R-IN-26 inhibits the activation of the AKT/ERK/STAT3 signaling pathways, remodels the tumor immune microenvironment, and exhibits antitumor activity in mouse models. In SD rats, CSF1R-IN-26 demonstrates favorable pharmacokinetic properties, with a half-life of 1.86 hours and an oral bioavailability of 79.22%.
Targets(IC ₅₀)	Apoptosis,ERK,c-Fms,Akt,STAT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4046 mL	12.023 mL	24.046 mL
5 mM	0.4809 mL	2.4046 mL	4.8092 mL
10 mM	0.2405 mL	1.2023 mL	2.4046 mL
50 mM	0.0481 mL	0.2405 mL	0.4809 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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