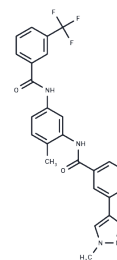


CSF1R-IN-1

Chemical Properties

CAS No. :	2095849-04-8
Formula:	C ₂₅ H ₂₀ F ₃ N ₅ O ₂
Molecular Weight:	479.45
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-1 is a CSF1R inhibitor with an IC ₅₀ of 0.5 nM.
Targets(IC ₅₀)	c-Fms
In vitro	It is believed that CSF1R plays an important role in the recruitment and differentiation of tumor-associated macrophages (TAM). CSF1R-IN-1 showed good intestinal permeability in Caco2 analysis.
In vivo	CSF1R-IN-1 has good pharmacokinetics when administered orally to mice. It seems suitable for in vivo pharmacological testing in an appropriate preclinical tumor model to prove a proof of concept.

Solubility Information

Solubility	DMSO: 130 mg/mL (271.14 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 (6.88 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	2.0857 mL	10.4286 mL	20.8572 mL
5 mM	0.4171 mL	2.0857 mL	4.1714 mL
10 mM	0.2086 mL	1.0429 mL	2.0857 mL
50 mM	0.0417 mL	0.2086 mL	0.4171 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

Ramachandran SA, et al. Design, synthesis and optimization of bis-amide derivatives as CSF1R inhibitors. *Bioorg Med Chem Lett.* 2017 May 15;27(10):2153-2160.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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