CSF1R-IN-1

Cat. No.:	HY-101774		
CAS No.:	2095849-04	-8	
Molecular Formula:	C ₂₅ H ₂₀ F ₃ N ₅ C)2	
Molecular Weight:	479.45		
Target:	c-Fms		
Pathway:	Protein Tyr	osine Kin	ase/RTK
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL	(173.80 mM; Need ultrasonic)			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	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
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo	1. Add each solvent o Solubility: ≥ 2.08 n	one by one: 10% DMSO >> 40% PE(ng/mL (4.34 mM); Clear solution	G300 >> 5% Tween-80) >> 45% saline	
	2. Add each solvent of Solubility: ≥ 2.08 n	one by one: 10% DMSO >> 90% cor ng/mL (4.34 mM); Clear solution	n oil		

DIOLOGICALACITY	
Description	CSF1R-IN-1 is a CSF1R inhibitor with an with an IC ₅₀ of 0.5 nM.
IC ₅₀ & Target	IC50: 0.5 nM (CSF1R) ^[1]
In Vitro	CSF1R is thought to play an important role in recruitment and differentiation of tumor-associated macrophages (TAMs). CSF1R-IN-1 (compound 22) shows good intestinal permeability in a Caco2 assay ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CSF1R-IN-1 has favorable pharmacokinetics when dosed orally to mice. It appears suitable for in vivo pharmacology testing in the appropriate preclinical tumor model to demonstrate proof of concept. ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Product Data Sheet

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N-N

F ↓ F



Animal Model:	Male CD-1 mice, 25-35 grams (8-11 weeks old) $^{[1]}$
Dosage:	2 mg/kg IV or 10 mg/kg orally (Per Os)
Administration:	i.v. or oral
Result:	I.V.: C _{max} =3.55, T _{1/2} =0.87P.O.: C _{max} =4.6, T _{1/2} =1.8, Bioavailability=64%

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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