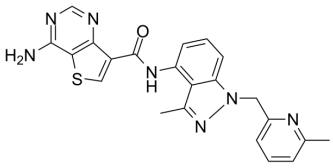
c-Fms-IN-10

Cat. No.:	HY-126297
CAS No.:	1527517-50-5
Molecular Formula:	$C_{22}H_{19}N_7OS$
Molecular Weight:	429.5
Target:	c-Fms
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (23.28 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3283 mL	11.6414 mL	23.2829 mL
	5 mM	0.4657 mL	2.3283 mL	4.6566 mL
	10 mM	0.2328 mL	1.1641 mL	2.3283 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 1 mg/mL (2.33 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 1 mg/mL (2.33 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

c-Fms-IN-10 is the derivative of thieno [3,2-d] pyrimidine, an kinase inhibitor of FMS (Colony stimulating factor-1 receptor, CSF-1R) with IC_{50} of 2 nM.c-Fms-IN-10 has anti-tumor activity[1].

REFERENCES

[1]. Kim YY et al. Synthesis and evaluation of thieno[3,2-d]pyrimidine derivatives as novel FMS inhibitors. Bioorg Med Chem Lett. 2019 Jan 15;29(2):271-275.

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

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