c-Fms-IN-8

Cat. No.: HY-119942

CAS No.: 1255303-58-2

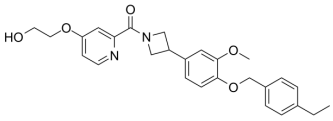
Molecular Formula: $C_{27}H_{30}N_2O_5$

Molecular Weight: 462.54

Target: c-Fms

Pathway: Protein Tyrosine Kinase/RTK

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (216.20 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1620 mL	10.8099 mL	21.6198 mL
	5 mM	0.4324 mL	2.1620 mL	4.3240 mL
	10 mM	0.2162 mL	1.0810 mL	2.1620 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.40 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

c-Fms-IN-8 (compound 4a) is a colony stimulating factor-1 receptor (CSF-1R, c-FMS) Type II inhibitor, with an IC_{50} of 9.1 nM[1].

IC_{50} & Target

IC50: 9.1 nM (CSF-1R)[1].

REFERENCES

[1]. Ikegashira K, et al. Discovery of a novel azetidine scaffold for colony stimulating factor-1 receptor (CSF-1R) Type II inhibitors by the use of docking models. Bioorg Med Chem Lett. 2019 Jan 1;29(1):115-118.

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

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