MARK-IN-1

Cat. No.: HY-101933

CAS No.: 1109283-93-3

Molecular Formula: $C_{22}H_{23}F_2N_7OS$

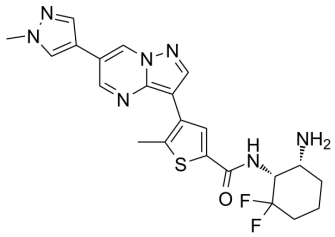
Molecular Weight: 471.53

Target: AMPK

Pathway: Epigenetics; PI3K/Akt/mTOR

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (212.08 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1208 mL	10.6038 mL	21.2076 mL
	5 mM	0.4242 mL	2.1208 mL	4.2415 mL
	10 mM	0.2121 mL	1.0604 mL	2.1208 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: ≥ 2.5 mg/mL (5.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MARK-IN-1 is a potent microtubule affinity regulating kinase (MARK) inhibitor with an IC_{50} of <0.25 nM.

IC_{50} & Target

IC50: <0.25 nM (MARK)[1]

In Vitro

MARK-IN-1 (Compound 25) is a potent MARK inhibitor. Inhibition of MARK represents a potentially attractive means of arresting neurofibrillary tangle pathology in Alzheimer's disease[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sloman DL, et al. Optimization of microtubule affinity regulating kinase (MARK) inhibitors with improved physical properties. Bioorg Med Chem Lett. 2016 Sep 1;26(17):4362-6.

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

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