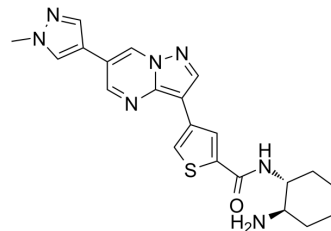


MARK-IN-4

Cat. No.:	HY-112266
CAS No.:	1990492-86-8
Molecular Formula:	C ₂₁ H ₂₃ N ₇ OS
Molecular Weight:	421.52
Target:	AMPK
Pathway:	Epigenetics; PI3K/Akt/mTOR
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (237.24 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3724 mL	11.8618 mL	23.7237 mL
5 mM	0.4745 mL	2.3724 mL	4.7447 mL
10 mM	0.2372 mL	1.1862 mL	2.3724 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MARK-IN-4 is a potent microtubule affinity regulating kinase (MARK) inhibitor with an IC₅₀ of 1 nM. Inhibition of microtubule affinity regulating kinase (MARK) represents a potentially attractive means of arresting neurofibrillary tangle pathology in Alzheimer's disease^[1].

REFERENCES

[1]. Sloman DL, et al. Optimization of microtubule affinity regulating kinase (MARK) inhibitors with improved physical properties. Bioorg Med Chem Lett. 2016;26(17):4362-4366.

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

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