SGK1-IN-4

Cat. No.: HY-142687

CAS No.: 1628048-93-0

Molecular Formula: $C_{23}H_{21}ClFN_5O_4S$

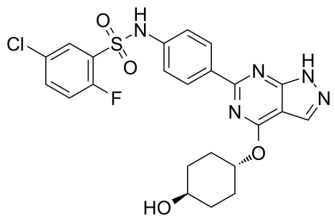
Molecular Weight: 517.96

Target: SGK

Pathway: Metabolic Enzyme/Protease

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 (193.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9307 mL	9.6533 mL	19.3065 mL
	5 mM	0.3861 mL	1.9307 mL	3.8613 mL
	10 mM	0.1931 mL	0.9653 mL	1.9307 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: ≥ 2.08 mg/mL (4.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (4.02 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SGK1-IN-4 (compound 17a) is a highly selective, orally active SGK1 inhibitor. SGK1-IN-4 can be used for osteoarthritis research[1].

REFERENCES

[1]. Nis Halland, et al. Rational Design of Highly Potent, Selective, and Bioavailable SGK1 Protein Kinase Inhibitors for the Treatment of Osteoarthritis. J Med Chem. 2022 Jan 27;65(2):1567-1584.

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

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