SIK2-IN-1

Cat. No.: HY-153975

Molecular Formula: $C_{25}H_{28}F_3N_7O_2S$

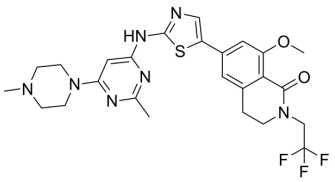
Molecular Weight: 547.6

Target: Salt-inducible Kinase (SIK)

Pathway: Immunology/Inflammation

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 : 100 mg/mL (182.62 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.8262 mL	9.1308 mL	18.2615 mL
5 mM	0.3652 mL	1.8262 mL	3.6523 mL
10 mM	0.1826 mL	0.9131 mL	1.8262 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 (4.57 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (4.57 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

SIK2-IN-1 (compound 8g) is a potent SIK2 inhibitor over other AMPK kinases. SIK2-IN-1 exhibits favorable in vitro ADMET profiles and decent cellular activities[1].

IC_{50} & Target

SIK2

REFERENCES

[1]. Zhu W, et al. Discovery of novel and selective SIK2 inhibitors by the application of AlphaFold structures and generative models. Bioorg Med Chem. 2023 Jul 13;91:117414.

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

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