(S)-PI3Kα-IN-4

Cat. No.: HY-131345A CAS No.: 2322293-84-3 Molecular Formula: $C_{25}H_{23}ClFN_5O_5S$

Molecular Weight: 560
Target: PI3K

Pathway: PI3K/Akt/mTOR

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 (178.57 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.7857 mL	8.9286 mL	17.8571 mL
	5 mM	0.3571 mL	1.7857 mL	3.5714 mL
	10 mM	0.1786 mL	0.8929 mL	1.7857 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 (4.46 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.46 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description (S)-PI3Kα-IN-4 is a potent inhibitor of PI3Kα, with an IC₅₀ of 2.3 nM. (S)-PI3Kα-IN-4 shows 38.3-, 4.25-, and 4.93-fold selectivity for PI3Kα over PI3Kβ, PI3Kδ, and PI3Kγ, respectively. (S)-PI3Kα-IN-4 can be used for the research of cancer^[1].

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 IC_{50} & Target $PI3K\alpha \\ 2.3 \text{ nM (IC}_{50)}$

 $\label{eq:compound 11} \textbf{In Vitro} \qquad \qquad (S)-P13K\alpha-IN-4 \ (compound 11) \ is \ a \ quinazolin-4(3H)-one \ derivative \ with \ 2-substituted-N-methylpropanamide \ substitution \ [1].$

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
REFERENCES	
1]. Dong J, et, al. Discovery .0;11(7):1463-1469.	of 3-Quinazolin-4(3 H)-on-3-yl-2, N-dimethylpropanamides as Orally Active and Selective PI3Kα Inhibitors. ACS Med Chem Lett. 2020 Jun

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

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