Data Sheet (Cat.No.T37082)

TargetMol®
A DRUG SCREENING EXPERT

HS271

Chemical Properties

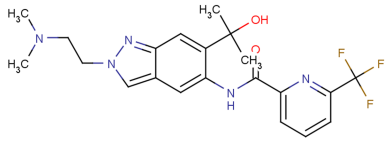
CAS No. : 2410393-15-4

Formula: C21H24F3N5O2

Molecular Weight: 435.44

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	HS271 is a selective, highly potent and orally active IRAK4 inhibitor (IC50= 7.2 μM). HS271 shows excellent enzymatic and cellular activities, as well as excellent pharmacokinetic properties.
Targets(IC50)	IRAK
In vivo	In rat models of LPS-induced TNFα production collagen-induced arthritis, HS271 (15-150 mg/kg) shows robust antiinflammatory efficacy with a t1/2 of 3.3 h and Cmax of 2107 ng/mL. The oral bioavailability of HS271 is 67.3%, 58.2%, 14.4&% and 49% in mice, rats, dogs, and monkeys, respectively[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (206.7 mM),Need ultrasonic (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2965 mL	11.4826 mL	22.9653 mL
5 mM	0.4593 mL	2.2965 mL	4.5931 mL
10 mM	0.2297 mL	1.1483 mL	2.2965 mL
50 mM	0.0459 mL	0.2297 mL	0.4593 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Wenqiang Zhai, et al. Discovery and optimization of a potent and selective indazolamine series of IRAK4 inhibitors. Bioorg Med Chem Lett. 2020 Nov 24;31:127686.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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