

HS-276

Chemical Properties

CAS No. : 2767422-72-8

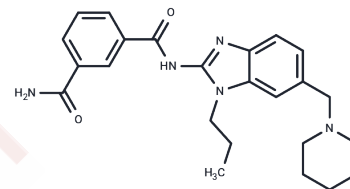
Formula: C₂₄H₂₉N₅O₂

Molecular Weight: 419.52

Storage: Store at low temperature, Keep away from direct sunlight

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	HS-276 is a highly selective, orally active inhibitor of TAK1 (K _i : 2.5 nM). HS-276 significantly inhibits TAK1 (IC ₅₀ : 8.25 nM), CLK2 (IC ₅₀ : 29 nM), GCK (IC ₅₀ : 22 nM), ULK2 (IC ₅₀ : 63 nM), MAP4K5 (IC ₅₀). HS-276 can be used to study rheumatoid arthritis (RA).
Targets(IC ₅₀)	Casein Kinase, MAPK, IRAK, TNF

Solubility Information

Solubility	DMSO: 50 mg/mL (119.18 mM), when pH is adjusted to 3 with HCl. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.77 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3837 mL	11.9184 mL	23.8368 mL
5 mM	0.4767 mL	2.3837 mL	4.7674 mL
10 mM	0.2384 mL	1.1918 mL	2.3837 mL
50 mM	0.0477 mL	0.2384 mL	0.4767 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Scarneo S, et al. Development and Efficacy of an Orally Bioavailable Selective TAK1 Inhibitor for the Treatment of Inflammatory Arthritis. ACS Chem Biol. 2022 Mar 18;17(3):536-544.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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