

HS-276

Chemical Properties

CAS No. : 2767422-72-8

Formula: C₂₄H₂₉N₅O₂

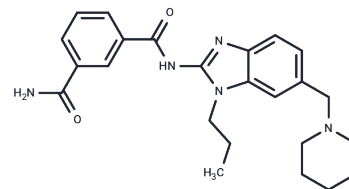
Molecular Weight: 419.52

Appearance: no data available

Storage:

store at low temperature, keep away from direct sunlight

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



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 : 63 nM). HS-276 can be used to study rheumatoid arthritis (RA).
Targets(IC ₅₀)	MAPK

Solubility Information

Solubility	DMSO: 45.0 mg/mL (107.3 mM), when pH is adjusted to 2 with HCl. Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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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