

Product Data Sheet

Product Name: HS-276
Cat. No.: GC65941

Chemical Properties

Cas. No. 2767422-72-8

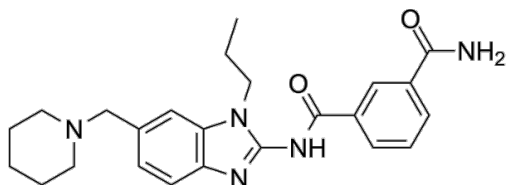
Formula $C_{24}H_{29}N_5O_2$ M.Wt 419.52

Solubility DMSO : 50 mg/mL (119.18 mM); ultrasonic and warming and adjust pH to 2 with HCl and heat to 80°C) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

HS-276 is an orally active, potent and highly selective **TAK1** inhibitor, with a **K_i** of 2.5 nM. HS-276 shows significant inhibition of TAK1, CLK2, GCK, ULK2, MAP4K5, IRAK1, NUA1, CSNK1G2, CAMKKβ-1, and MLK1, with **IC₅₀** values of 8.25, 29, 33, 63, 125, 264, 270, 810, 1280, and 5585 nM, respectively. HS-276 can be used for rheumatoid arthritis (RA) research^[1].

HS-276 reduces expression of TNF, IL-6, and IL-1β in a dose-dependent manner, with IC₅₀ values of

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138, 201, and 234 nM, respectively^[1].

HS-276 (CIA mouse model of inflammatory arthritis, 50 mg/kg, IP, daily for 6 days) reduces inflammation, pannus, cartilage damage (CD), bone resorption (BR), and periosteal bone formation (PBF) histological manifestations^[1].

HS-276 (CD-1 mice, 30 mg/kg, Oral gavage, once) shows excellent bioavailability in mice with a C_{max} of 3.68 μ M and %F of 98.1%^[1].

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