

Product Data Sheet

Product Name: HS271
Cat. No.: GC62429

Chemical Properties

Cas. No. 2410393-15-4

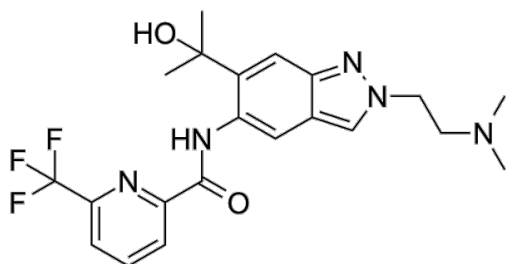
Formula $C_{21}H_{24}F_3N_5O_2$ M.Wt 435.44

Solubility DMSO : 100 mg/mL (229.65 mM; Storage Store at -20°C
Need ultrasonic)

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

HS271 is a highly potent, orally active and selective IRAK4 inhibitor, with an IC₅₀ of 7.2 μM. HS271 exhibits superior enzymatic and cellular activities, as well as excellent pharmacokinetic properties[1].

HS271 (15-150 mg/kg) displays robust in vivo antiinflammatory efficacy as evaluated in rat models of

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

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LPS induced TNF α production collageninduced arthritis[1].HS271 exhibits a t_{1/2} of 3.3 h and C_{max} of 2107 ng/mL[1].HS271 is stable in liver microsome assays across other species, including rat, mouse, monkey, and human[1].HS271 exhibits oral bioavailability of 67.3%, 58.2%, 14.4% and 49% in mouse, rat, dog and monkey, respectively[1].

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

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