

Product Data Sheet

Product Name: SHR0302

Cat. No.: GC39802

Chemical Properties

Cas. No. 1445987-21-2

SMILES O=C(N1C[C@@]2([H])[C@@](C[C@H](N(C)C3=C4C(NC=C4)=NC=N3)C2)([H])C1)NC5=NC(OC)=NS5

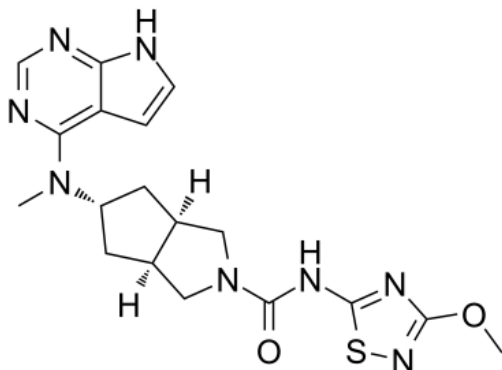
Formula $C_{18}H_{22}N_8O_2S$ M.Wt 414.48

Solubility DMSO: 31.25 mg/mL (75.40 mM) 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

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

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SHR0302 is a potent and orally active all members of the JAK family inhibitor, particularly JAK1. The selectivity of SHR0302 for JAK1 is >10-fold for JAK2, 77-fold for JAK3, 420-fold for Tyk2. SHR0302 inhibits JAK1-STAT3 phosphorylation and induces the apoptosis of hepatic stellate cells. SHR0302 has anti-proliferative and anti-inflammatory effects[1][2].

[1]. Huaxun Wu, et al. JAK1-STAT3 Blockade by JAK Inhibitor SHR0302 Attenuates Inflammatory Responses of Adjuvant-Induced Arthritis Rats and Decreases Th17 and Total B Cells. Joint Bone Spine. 2016 Oct;83(5):525-32. [2]. Yuan-Jing Gu, et al. Targeted Blockade of JAK/STAT3 Signaling Inhibits Proliferation, Migration and Collagen Production as Well as Inducing the Apoptosis of Hepatic Stellate Cells. Int J Mol Med. 2016 Sep;38(3):903-11.

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