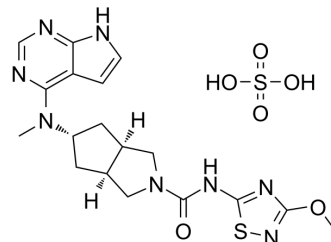


## Ivarmacitinib sulfate

Cat. No.:	HY-112724A
CAS No.:	1639419-51-4
Molecular Formula:	C <sub>18</sub> H <sub>24</sub> N <sub>8</sub> O <sub>6</sub> S <sub>2</sub>
Molecular Weight:	512.56
Target:	JAK; Apoptosis
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

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

### REFERENCES

[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.

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

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