

Product Name : Ruxolitinib sulfate

Synonyms : INCB-018424 sulfate; Ruxolitinib

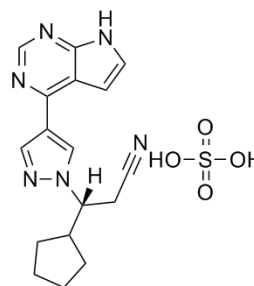
Cat No. : M10354

CAS Number : 1092939-16-6

Molecular Formula : C₁₇H₂₀N₆O₄S

Formula Weight : 404.44

Chemical Name : 1H-Pyrazole-1-propanenitrile, .beta.-cyclopentyl-4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-, (.beta.R)-, sulfate (1:1)



Description : A potent, selective, orally active JAK1/JAK2 inhibitor with IC₅₀ of 3.3/2.8 nM, respectively; displays modest selectivity against Tyk2 (6-fold) and marked selectivity (>130-fold) against JAK3; inhibits IL-6 signaling (IC₅₀=281 nM), and proliferation of JAK2V617F(+) Ba/F3 cells (IC₅₀=127 nM); suppresses erythroid progenitor colony formation from JAK2V617F(+) polycythemia vera patients (IC₅₀=67 nM) in primary cultures; markedly reduces level of inflammatory cytokines, and preferentially eliminates neoplastic cells in a mouse model of JAK2V617F(+) MPN. Bone Cancer Approved

Pathway : Angiogenesis

Target : JAK

Receptor : JAK

Solubility : 10 mM in DMSO

SMILES : C1CCC(C1)C(CC#N)N2C=C(C=N2)C3=C4C=CNC4=NC=N3.OS(=O)(=O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Quintás-Cardama A, et al. Blood. 2010 Apr 15;115(15):3109-17. | 2. Fridman JS, et al. J Immunol. 2010 May 1;184(9):5298-307. | 3. Verstovsek S, et al. N Engl J Med. 2010 Sep 16;363(12):1117-27.