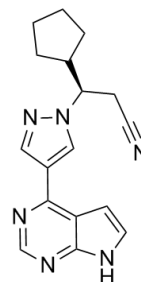


Product Name	: Ruxolitinib
Synonyms	: INCB-018424
Cat No.	: M16734
CAS Number	: 941678-49-5
Molecular Formula	: C ₁₇ H ₁₈ N ₆
Formula Weight	: 306.37
Chemical Name	: 1H-Pyrazole-1-propanenitrile, β-cyclopentyl-4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-, (βR)-
Description	A potent, selective, orally active 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	: JAK1;JAK2
Solubility	: DMSO: ≥ 36 mg/mL; H ₂ O: < 0.1 mg/mL
SMILES	: <chem>O=C(NC1=CC=C(F)C(F)=C1F)NC2C3CC4CC(C3)CC2C4</chem>
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.