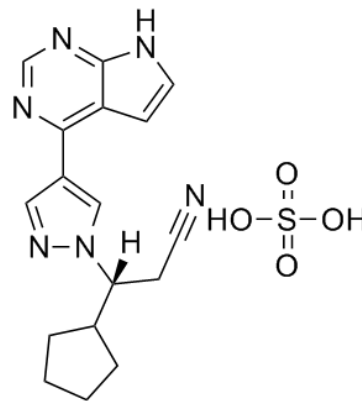


Product Name : Ruxolitinib sulfate
Cat. No. : PC-45875
CAS No. : 1092939-16-6
Molecular Formula : C₁₇H₂₀N₆O₄S
Molecular Weight : 404.4435
Target : JAK
Solubility : 10 mM in DMSO



Biological Activity

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

References

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Fridman JS, et al. J Immunol. 2010 May 1;184(9):5298-307.

Verstovsek S, et al. N Engl J Med. 2010 Sep 16;363(12):1117-27.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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