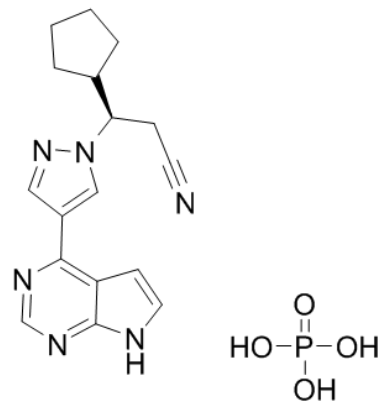


Product Name : Ruxolitinib phosphate
Cat. No. : PC-45874
CAS No. : 1092939-17-7
Molecular Formula : C₁₇H₂₁N₆O₄P
Molecular Weight : 404.3602
Target : JAK
Solubility :



Biological Activity

Ruxolitinib phosphate (INCB-018424 phosphate, INCB18424 phosphate) potent, selective, orally active **JAK1/JAK2** inhibitor with IC₅₀ of 3.3/2.8 nM, respectively.

Ruxolitinib displays modest selectivity against Tyk2 (6-fold) and marked selectivity (>130-fold) against JAK3.

Ruxolitinib inhibits IL-6 signaling (IC₅₀=281 nM), and proliferation of JAK2V617F(+) Ba/F3 cells (IC₅₀=127 nM).

Ruxolitinib suppresses erythroid progenitor colony formation from JAK2V617F(+) polycythemia vera patients (IC₅₀=67 nM) in primary cultures.

Ruxolitinib markedly reduces level of inflammatory cytokines, and preferentially eliminates neoplastic cells in a mouse model of JAK2V617F(+) MPN.

References

Quintás-Cardama A, et al. *Blood*. 2010 Apr 15;115(15):3109-17.

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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