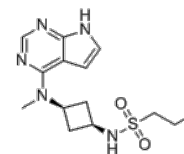


Product Name : PF-04965842
Cat. No. : PC-60671
CAS No. : 1622902-68-4
Molecular Formula : C₁₄H₂₁N₅O₂S
Molecular Weight : 323.415
Target : JAK
Solubility : 10 mM in DMSO



Biological Activity

PF-04965842 (Abrocitinib, PF04965842) is a potent, selective, orally bioavailable **JAK1** inhibitor with IC₅₀ of 29 nM.

PF-04965842 exhibits good selective inhibition profile for JAK1 versus other JAK family enzymes (IC₅₀=803/>10,000/1250 nM for JAK2/JAK3/TYK2, respectively).

PF-04965842 inhibits IFN α -stimulated phosphorylation of STAT3, IFN-stimulated phosphorylation of STAT1 in human whole blood (HWB), as well as pSTAT5 in CD34+ spiked into HWB (JAK2), with IC₅₀s of 189, 163 nM, 7.178 μ M, respectively.

PF-04965842 (5, 15, 50 mg/kg, p.o.) demonstrates efficacy in a rat adjuvant-induced arthritis (rAIA) model.

References

Vazquez ML, et al. *J Med Chem*. 2018 Jan 3. doi: 10.1021/acs.jmedchem.7b01598.

Schmieder GJ, et al. *Br J Dermatol*. 2017 Sep 26. doi: 10.1111/bjd.16004.

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

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