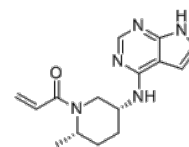


Product Name : PF-06651600
Cat. No. : PC-62333
CAS No. : 1792180-81-4
Molecular Formula : C₁₅H₁₉N₅O
Molecular Weight : 285.351
Target : JAK
Solubility : 10 mM in DMSO



Biological Activity

Ritlecitinib (PF-06651600) is a novel potent, selective **JAK3** inhibitor with IC₅₀ of 0.346 nM, displays >1,000-fold selectivity over JAK1 and JAK2.

PF-06651600 inhibits Th1 and Th17 cell differentiation and function, reduces disease pathology in rat adjuvant-induced arthritis as well as in mouse experimental autoimmune encephalomyelitis models.

PF-06651600 selectively targets γ c cytokine pathways while preserving JAK1-dependent anti-inflammatory signaling such as the IL-10 suppressive functions following LPS treatment in macrophages and the suppression of TNF α and IL-1 β production in IL-27-primed macrophages.

References

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Thorarensen A, et al. *J Med Chem.* 2017 Mar 9;60(5):1971-1993.

Robinette ML, et al. *Mucosal Immunol.* 2017 May 17. doi: 10.1038/mi.2017.38.

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

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