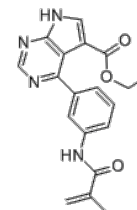


Product Name : JAK3-IN-2
Cat. No. : PC-60690
CAS No. : 1443235-95-7
Molecular Formula : C₁₉H₁₈N₄O₃
Molecular Weight : 350.378
Target : JAK
Solubility : 100 mM in DMSO



Biological Activity

JAK3-IN-2 is a potent and highly selective **JAK3** inhibitor with IC₅₀ of 0.15 nM.

JAK3-IN-2 displays >4,300-fold selectivity over JAK1, JAK2 and TYK2, and other kinases BMX, EGFR, ITK and BTK.

JAK3-IN-2 blocks cytokine signaling through JAK3, but not through other JAK family enzymes.

JAK3-IN-2 inhibits IL-7 induced pSTAT5 in CD3⁺, CD8⁺ T cells with IC₅₀ of 280 nM.

JAK3-IN-2 sufficiently blocks the development of inflammation in a rat model of rheumatoid arthritis, while sparing hematopoiesis.

References

J Pharmacol Exp Ther. 2017 May;361(2):229-244.

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

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