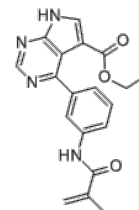


**Product Name** : JAK3-IN-2  
**Cat. No.** : PC-60690  
**CAS No.** : 1443235-95-7  
**Molecular Formula** : C<sub>19</sub>H<sub>18</sub>N<sub>4</sub>O<sub>3</sub>  
**Molecular Weight** : 350.378  
**Target** : JAK  
**Solubility** : 100 mM in DMSO



### Biological Activity

JAK3-IN-2 is a potent and highly selective **JAK3** inhibitor with IC<sub>50</sub> 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<sup>+</sup>, CD8<sup>+</sup> T cells with IC<sub>50</sub> of 280 nM.

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

### References

Elwood F, et al. *J Pharmacol Exp Ther.* 2017 May;361(2):229-244.

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

E-mail: tech@probechem.com