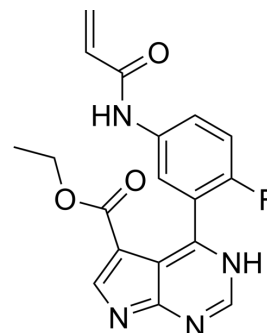


## JAK 3i

Cat. No.:	HY-100849
CAS No.:	1918238-72-8
Molecular Formula:	C <sub>18</sub> H <sub>15</sub> FN <sub>4</sub> O <sub>3</sub>
Molecular Weight:	354.34
Target:	JAK
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	JAK3i is a highly selective JAK3 inhibitor (IC <sub>50</sub> : 0.43 nM). JAK3i forms a covalent bond with a cysteine in JAK3, but not the closely related kinase domains in JAK1, JAK2, or TYK2. JAK3i abolishes IL-2-driven T-cell proliferation in vivo and has the potential for autoimmune disease research <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	JAK3 0.43 nM (IC <sub>50</sub> )	JAK2 8680 nM (IC <sub>50</sub> )	JAK1 1520 nM (IC <sub>50</sub> )

## REFERENCES

[1]. Geoffrey A Smith, et al. Essential biphasic role for JAK3 catalytic activity in IL-2 receptor signaling. Nat Chem Biol. 2016 May;12(5):373-9.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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