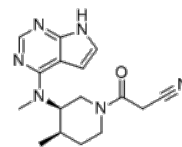


Product Name : Tofacitinib
Cat. No. : PC-45816
CAS No. : 477600-75-2
Molecular Formula : C₁₆H₂₀N₆O
Molecular Weight : 312.37
Target : JAK
Solubility :



Biological Activity

Tofacitinib (CP-690550) is a potent, specific, orally active inhibitor of **JAK3** with IC₅₀ of 1 nM in cell-free assays. Tofacitinib (CP-690550) displays 20- to 100-fold less potency for JAK2 and JAK1 (IC₅₀=20 nM and 112 nM, respectively), and shows no potent activity against 30 other kinases at >3 μM (CaMK1, ROCK2, Lck, MST2, etc.). Tofacitinib (CP-690550) effectively inhibits a murine mixed lymphocyte reaction (MLR) with IC₅₀ of 91 nM. Tofacitinib (CP-690550) significantly prolongs survival in a murine model of heart transplantation and in cynomolgus monkeys receiving kidney transplants.

References

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Kudlacz E, et al. **Am J Transplant**. 2004 Jan;4(1):51-7.

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

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