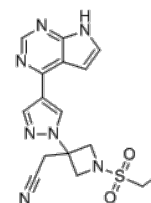


Product Name : Baricitinib
Cat. No. : PC-73190
CAS No. : 1187594-09-7
Molecular Formula : C₁₆H₁₇N₇O₂S
Molecular Weight : 371.42
Target : JAK
Solubility : 10 mM in DMSO



Biological Activity

Baricitinib (LY3009104, INCB028050) is a potent, selective and orally bioavailable **JAK1/JAK2** inhibitor with IC₅₀ of 5.9/5.7 nM, respectively.

Baricitinib (LY3009104, INCB028050) shows moderate selectivity against Tyk2 (IC₅₀=53 nM) and 100-fold selectivity over JAK3.

INCB028050 inhibited IL-6-stimulated phosphorylation of the canonical substrate STAT3 (pSTAT3) and subsequent production of the chemokine MCP-1 with IC₅₀ values of 44 nM and 40 nM, respectively, in PBMCs.

Baricitinib (LY3009104, INCB028050) suppressed phosphorylated STAT3 in the peripheral blood of rAIA animals.

Baricitinib (LY3009104, INCB028050) (10 mg/kg) reduces elevated cytokine mRNA levels in draining lymph nodes from rats with AIA.

References

Fridman JS, et al. *J Immunol.* 2010 May 1;184(9):5298-307.

Migita K, et al. *Clin Exp Immunol.* 2013 Dec;174(3):356-63.

Genovese MC, et al. *N Engl J Med.* 2016 Mar 31;374(13):1243-52.

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

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