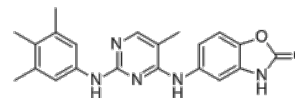


Product Name : AZD0449
Cat. No. : PC-49307
CAS No. : 1236666-76-4
Molecular Formula : C₂₁H₂₁N₅O₂
Molecular Weight : 375.432
Target : JAK
Solubility : 10 mM in DMSO



Biological Activity

AZD0449 (AZD-0449) is a potent and highly selective **JAK1** inhibitor with IC₅₀ of 2.4 nM, displays >50-fold selectivity over TYK2 and JAK2, and no inhibition against JAK3.

AZD0449 inhibited JAK1-dependent signaling, determined by reductions in IL-4-induced STAT6 phosphorylation in human CD4⁺ T cells with IC₅₀ of 21.4 nM, inhibited IL-13-induced phosphorylation of STAT6- and TSLP-induced production of CCL17.

AZD0449 dose-dependently inhibited STAT3, STAT5a, and STAT5b phosphorylation in lung tissue from ovalbumin (OVA)-challenged rats.

AZD0449 also inhibited eosinophilia in the lung and reduced the late asthmatic response, measured as Penh in the OVA rat model.

References

Magnus Nilsson, et al. *Drug Des Devel Ther.* 2022 Aug 31;16:2901-2917.

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

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