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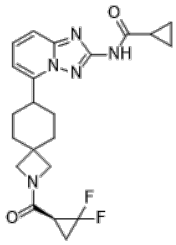
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TUL01101
Cat. No.	:	PC-25034
CAS No.	:	2411222-97-2
Molecular Formula	:	$C_{22}H_{25}F_2N_5O_2$
Molecular Weight	:	429.47
Target	:	JAK
Solubility	:	10 mM in DMSO



CAS: 2411222-97-2

Biological Activity

Blovacitinib (TUL01101) is a potent, selective and oral Janus kinase 1 (JAK1) inhibitor with IC50 of 3 nM, >12-fold selectivity for JAK2 and TYK2.
TUL01101 interacts with JAK1 JH1 domain.
TUL01101 can effectively inhibit signaling pathways involved by JAK1 mediated by IL-6, with stronger inhibitory activity than filgotinib (IC50: 125.9 vs 407.4 nM).
TUL01101 can effectively inhibit JAK1-JAK3 signaling pathway mediated by IL-2 and JAK1-TYK2 signaling pathway mediated by IFNα.
TUL01101 does not inhibit JAK2 signaling pathways induced by GM-CSF.
TUL01101 (1 mg/kg, BID, p.o.) exhibited effective activity in the treatment of RA both in collagen-induced arthritis (CIA) and adjuvant-induced arthritis (AIA) models, with low dose and low toxicity.

References

Shuhao Zhou, et al. J Med Chem. 2022 Dec 22;65(24):16716-16740.

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

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