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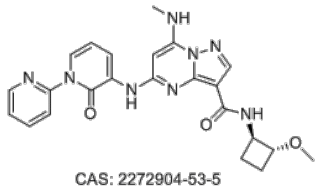
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TAK-279
Cat. No.	:	PC-20516
CAS No.	:	2272904-53-5
Molecular Formula	:	$C_{23}H_{24}N_8O_3$
Molecular Weight	:	460.50
Target	:	JAK
Solubility	:	10 mM in DMSO



CAS: 2272904-53-5

Biological Activity

TAK-279 (Zasocitinib, NDI-034858) is a potent, selective and allosteric **TYK2** inhibitor, targets TYK2 JH2 domain with binding KD of 3.8 pM.
TAK-279 exhibites hignly potent cellular pSTAT4 IL12 PBMC IC50 of 6.7 nM.
TAK-279 displays functional selectivity over JAK1, JAK2, and JAK3.
TAK-279 inhibits IFNα-stimulated phosphorylation of STAT3 in CD3-positive T-cells as well as IFNα-stimulated CXCL10 production in whole blood with IC50s of 1.7 and 22 nM, respectively.
TAK-279 inhibits IL23-stimulated phosphorylation of STAT3 in human CD161 + CD3 + TH17 cells with an IC50 of 3.7 nM.
TAK-279 inhibits IFNα-stimulated CXCL10 production in mouse and rat whole blood with IC50 of 347 and 91 nM, respectively.
TAK-279 also inhibits IL12-IL18-stimulated induction of IFNγ in whole blood with IC50 of 48 nM.
TAK-279 (30 mg/kg) demonstrated dose-dependent suppression of IL12/IL18-induced IFNγ production in rat in vivo PD model.

References

Patent WO2019023468 A1. Pyrazolopyrimidines as TYK2 inhibitors and their preparation.
2. Leit S, et al. ***J Med Chem***. 2023 Jul 10. doi: 10.1021/acs.jmedchem.3c00600.

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