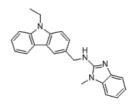


WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	AJ2-30
Cat. No.	:	PC-21683
CAS No.	:	2700322-79-6
Molecular Formula	:	C ₂₃ H ₂₂ N ₄
Molecular Weight	:	354.46
Target	:	Other Targets
Solubility	:	10 mM in DMSO



CAS: 2700322-79-6

Biological Activity

AJ2-30 is a specific small molecule **SLC15A4** inhibitor with IFN- α suppression IC50 of 1.8 μ M and MDP transport inhibition IC50 of 2.6 μ M.

AJ2-30 shows no activity against a related family member, SLC15A3.

AJ2-30 displays similar activity against murine Slc15a4-mediated NOD2 activation.

AJ2-30 also blocks R848-induced activation of TLR7/8 signaling as well as TriDAP-induced and MDP-induced activation of NOD1 and NOD2 signaling, respectively, in THP-1 reporter cells.

AJ2-30 (10 uM) inhibites TLR7/8-induced production of TNF- α in human monocytes, also suppresses MDP-mediated and TriDAP-mediated TNF- α production in human macrophages, displays cross-species reactivity, suppressing IFN- α production in mouse pDCs.

AJ2-30 suppresses TLR7-9 and NOD activation of mouse immune cells in an Slc15a4-dependent manner.

AJ2-30 induces lysosomal-mediated degradation of SLC15A4.

AJ2-30 reduces inflammation in lupus patient cells and mice, suppresses inflammatory cytokine production in lupus patientderived PBMCs.

References

Tzu-Yuan Chiu, et al. Nat Chem Biol. 2024 Jan 8. doi: 10.1038/s41589-023-01527-8.

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

E-mail: tech@probechem.com