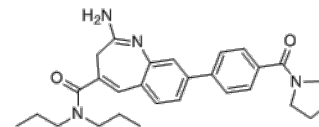


Product Name : Motolimod
Cat. No. : PC-20227
CAS No. : 926927-61-9
Molecular Formula : C₂₈H₃₄N₄O₂
Molecular Weight : 458.61
Target : Toll-like Receptor (TLR)
Solubility : 10 mM in DMSO



Biological Activity

Motolimod (VTX-2337) is a potent, selective small-molecule TLR8 agonist, stimulates PBMCs to produce TNF α and IL-12 with EC₅₀ of 140 and 120 nM, respectively.

VTX-2337 selectively activated TLR8, but not HEK293 cells transfected other TLRs (TLR2, 3, 4, 5, and 9), 30-fold over TLR7. VTX-2337 drives mDCs and monocytes to produce IL-12 and TNF α via NF- κ B activation, but not pDCs.

VTX-2337 stimulates the production of other immune mediators including IFN γ , activates NK cells to produce IFN γ .

VTX-2337 augments the lytic function of NK cells and enhances ADCC, enhances ADCC in donors with different SNP on Fc γ R3A.

VTX-2337 enhances rituximab-mediated ADCC, including individuals with Fc γ R3A genotypes associated with a reduced affinity for therapeutic monoclonal antibodies.

References

Dietsch GN, et al. Clin Cancer Res. 2015 Dec 15;21(24):5445-52.

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

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