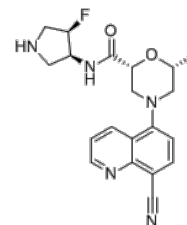


Product Name : E6742
Cat. No. : PC-21010
CAS No. : 1700609-11-5
Molecular Formula : C₂₀H₂₂FN₅O₂
Molecular Weight : 383.430
Target : Toll-like Receptor (TLR)
Solubility : 10 mM in DMSO



CAS: 1700609-11-5

Biological Activity

E6742 (E6742) is a potent, selective, dual **TLR7/8** inhibitor with binding K_d of 1.7 μM/37 nM in ITC assays, respectively, inhibits TLR7/8 agonist CL097 induced reporter activation with IC₅₀ values of 22, 68, and 3.0 nM for hTLR7, mTLR7, and hTLR8, respectively.

E6742 does not inhibit TLR9-mediated NF-κB activation at concentrations at >30 μM, also shows no effect on stimulation of TLR2, 3, 4, or 5.

E6742 potently inhibits IL-6 and IFN-α production stimulated by TLR7/8 agonist SL4-Ig with IC₅₀ of 5.0 and 2.0 nM, respectively.

E6742 completely suppressed arthritis at 200 mg/kg and significantly reduced symptoms at 33 mg/kg in the pristane-induced murine model of SLE.

E6742 suppressed increase in autoantibodies and blocked the advance of organ damage in mouse models of lupus.

References

Sally T Ishizaka, et al. *Eur J Pharmacol.* 2023 Aug 4;175962.

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

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