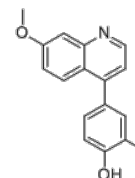


Product Name : CU-CPT9a
Cat. No. : PC-60331
CAS No. : 2165340-32-7
Molecular Formula : C₁₇H₁₅NO₂
Molecular Weight : 265.312
Target : Toll-like Receptor (TLR)
Solubility : 10 mM in DMSO



Biological Activity

CU-CPT9a (TLR8 inhibitor 9a) is a potent, selective **TLR8** inhibitor with IC₅₀ of 0.5 nM, and negligible cytotoxicity.

CU-CPT9a shows no significant inhibition for other TLRs at 1 μM in cellular assays.

CU-CPT9a consistently recognizes an allosteric pocket on the protein-protein interface, stabilizing the inactive TLR8 dimer.

CU-CPT9a shows significant inhibitory effects in suppressing the spontaneous release of TNF-α and IL-1β from synovial membrane cultures with little cytotoxicity up to 100 μM, also reduces the cytokine elevation in PMBCs derived from four patients with RA.

References

Zhang S, et al. *Nat Chem Biol*. 2017 Nov 20. doi: 10.1038/nchembio.2518.

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

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