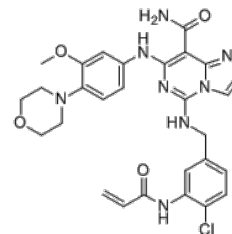


Product Name : RDN2150
Cat. No. : PC-21064
CAS No. : 2839429-51-3
Molecular Formula : C₂₈H₂₉ClN₈O₄
Molecular Weight : 577.04
Target : Syk
Solubility : 10 mM in DMSO



CAS: 2839429-51-3

Biological Activity

RDN2150 is a potent, selective and covalent **ZAP-70** inhibitor with IC₅₀ of 14.6 nM, shows no significant activity against Syk, covalently binds to the C346 residue of ZAP-70.

RDN2150 exhibits favorable selectivity on a 97-kinase selectivity profiling using the ScanEDGE KINOMEScan assay at 1 μM. RDN2150 (400 nM, 48h) significantly decreases the frequency of CD69⁺/CD4⁺ T cells from 21.3 to 10.8% on CD4⁺ T cells stimulated by anti-CD3 plus anti-CD28 antibodies.

RDN2150 selectively inhibits CD4⁺ T cell activation, inhibits the secretion of IFN-γ and IL-17A in the culture supernatant of activated CD4⁺ T cells, effectively suppresses the phosphorylation of LAT induced by anti-CD3/CD28 stimulation.

RDN2150 ameliorates murine psoriatic skin lesions in the IMQ-induced psoriasis mouse model.

References

Danni Rao, et al. *J Med Chem*. 2023 Aug 18. doi: 10.1021/acs.jmedchem.3c00606.

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

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