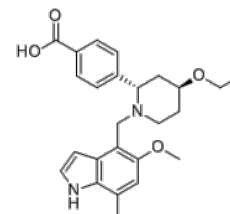


Product Name : LNP023
Cat. No. : PC-36148
CAS No. : 1644670-37-0
Molecular Formula : C₂₅H₃₀N₂O₄
Molecular Weight : 422.525
Target : Complement System
Solubility : 10 mM in DMSO



Biological Activity

Iptacopan (LNP023) is a highly potent, reversible, selective inhibitor of **factor B** (IC₅₀=10 nM), the proteolytically active component of the C3 and C5 convertases.

Iptacopan (LNP023) shows direct, reversible, and high-affinity binding to human FB with K_d of 7.9 nM in SPR assays, demonstrates potent inhibition of AP-induced MAC formation in 50% human serum with IC₅₀ of 0.13 μM.

Iptacopan (LNP023) shows no inhibition of factor D (FD), as well as classical or lectin complement pathway activation (up to 100 μM), and no significant effects (up to 10 μM) in a broad assay panel of receptors, ion channels, kinases, and proteases.

Iptacopan (LNP023) blocks zymosan-induced MAC formation membrane attack complex (MAC) with IC₅₀ of 0.15 μM, prevents KRN-induced arthritis in mice and is effective upon prophylactic and therapeutic dosing in an experimental model of membranous nephropathy in rats after oral administration.

Iptacopan (LNP023) also prevents complement activation in sera from C3 glomerulopathy patients and the hemolysis of human PNH erythrocytes.

References

Schubart A, et al. *Proc Natl Acad Sci U S A*. 2019 Mar 29. pii: 201820892.

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

E-mail: tech@probechem.com