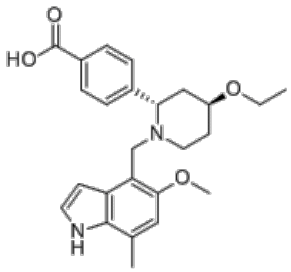
Product Name	:	LNP023
Synonyms	:	LNP-023;LNP 023
Cat No.	:	M12510
CAS Number	:	1644670-37-0
Molecular Formula	:	C25H30N2O4
Formula Weight	:	422.53
Chemical Name	:	4-((2S,4S)-4-ethoxy-1-((5-methoxy-7-methyl-1H-indol-4-yl)methyl)piperidin-2-yl)benzoic acid
Description	:	LNP023 (LNP-023) is a highly potent, reversible, selective inhibitor of factor B (IC50=10 nM), the proteolytically active component of the C3 and C5 convertases; shows direct, reversible, and high-affinity binding to human FB with Kd of 7.9 nM in SPR assays, demonstrates potent inhibition of AP-induced MAC formation in 50% human serum with IC50 of 0.13 uM; shows no inhibition of factor D (FD), as well as classical or lectin complement pathway activation (up to 100 uM), and no significant effects (up to 10 μM) in a broad assay panel of receptors, ion channels, kinases, and proteases; blocks zymosan-induced MAC formation membrane attack complex (MAC) with IC50 of 0.15 uM, prevents KRN-induced arthritis in mice and is effective upon prophylactic and therapeutic dosing in an experimental model of membranous nephropathy in rats afer oral adminstration; also prevents complement activation in sera from C3 glomerulopathy patients and the hemolysis of human PNH erythrocytes.Other Indication Phase 2 Clinical
Pathway	:	Immunology/Inflammation
Target	:	Complement System
Receptor	:	Complement System
Solubility	:	——
SMILES	:	O=C(O)C1=CC=C([C@H]2N(CC3=C(OC)C=C(C)C4=C3C=CN4)CC[C@H](OCC)C2)C=C1
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



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