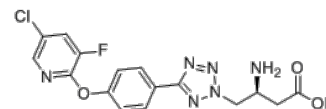


Product Name : LYS-006
Cat. No. : PC-72651
CAS No. : 1799681-85-8
Molecular Formula : C₁₆H₁₄ClFN₆O₃
Molecular Weight : 392.775
Target : Other Targets
Solubility : 10 mM in DMSO (3.9 mg/mL)



Biological Activity

LYS-006 (LYS006) is a potent, highly selective **leukotriene A4 hydrolase (LTA4H)** inhibitor with biochemical IC₅₀ of 0.12 nM.

LYS-006 demonstrates high potency (IC₅₀=53 nM) in human whole blood ionophore-stimulated LTB₄ release assay.

LYS-006 shows an exquisite selectivity profile at 10 uM on a panel of >150 GPCRs, transporters, ion channels, nuclear receptors, and enzymes in vitro, does not inhibit other Zn²⁺ containing MMPs including MMP1, 2, 8, 9, 12, 13, 14 and TACE at 30 uM. LYS006 dependently inhibited ex vivo LTB₄ formation, inhibited LTB₄ production by 90% at dose >1 mg/kg, reduced MPO in skin homogenates y in neutrophilic skin inflammation models.

LYS-006 (0.1-3 mg/kg) suppressed neutrophilic inflammation in arachidonic acid induced skin inflammation model.

LYS006 has the potential for a best-in-class LTA4H inhibitor and is currently investigated in phase II clinical trials in inflammatory acne, hidradenitis suppurativa, ulcerative colitis, and NASH.

References

Christian Markert, et al. *J Med Chem.* 2021 Feb 25;64(4):1889-1903.

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

E-mail: tech@probechem.com