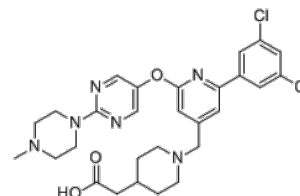


Product Name : BOS-318
Cat. No. : PC-72839
CAS No. : 2387633-15-8
Molecular Formula : C₂₈H₃₂Cl₂N₆O₃
Molecular Weight : 571.503
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

BOS-318 (BOS318) is a potent, highly selective, cell-permeable **furin** inhibitor with IC₅₀ of 1.9 nM, K_i of 0.4 nM.

BOS-318 displays 13 times more potent against furin than PCSK5 (IC₅₀ =25.3 nM), 24 times more potent than PCSK7 (IC₅₀ =45.8 nM), and 110 times more potent than PCSK6 (IC₅₀ =209.4 nM).

BOS-318 reduces endogenous proteases in the Golgi compartment in U2OS cells with IC₅₀ of 23.5 nM.

BOS-318 provides protection against PEA-mediated cytotoxicity in a dose-dependent manner in CuFi-1 cells, over a period of 72 h, with an EC₅₀ of 47.8 nM.

BOS-318 reduces ENaC-mediated Na⁺ absorption in CF HBECs after short- (2-h) and long-term (48-h) treatment and protects against NE- and CF sputum-sol-mediated activation of the ENaC.

References

Lisa E J Douglas, et al. **Cell Chem Biol.** 2022 Feb 22;S2451-9456(22)00052-6.

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

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