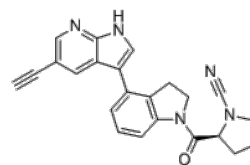


Product Name : IMP-1710
Cat. No. : PC-72219
CAS No. : 2383117-96-0
Molecular Formula : C₂₃H₁₉N₅O
Molecular Weight : 381.439
Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



Biological Activity

IMP-1710 (IMP1710) is a potent, selective, covalent **UCHL1** inhibitor with IC₅₀ of 38 nM.

IMP-1710 demonstrated exquisite selectivity in a cross-screening against 20 DUBs.

IMP-1710 can profile activity of endogenous UCHL1 with excellent selectivity in cell types including endothelial cells (EA.hy926) and adenocarcinoma human alveolar basal epithelial cells (A549).

IMP-1710 demonstrated >50% fibroblast–myofibroblast transition (FMT) inhibition (IC₅₀=740 nM) in idiopathic pulmonary fibrosis (IPF), as well as αSMA inhibition.

IMP-1710 is a powerful and selective probe to explore UCHL1 activity with potential application to substrate identification, mode of action studies, and cellular target profiling.

References

Nattawadee Panyain, et al. *J Am Chem Soc.* 2020 Jul 15;142(28):12020-12026.

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

E-mail: tech@probechem.com