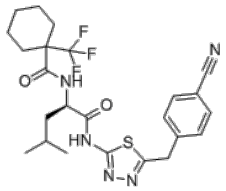
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BAY-805
Cat. No.	:	PC-49862
CAS No.	:	2925481-88-3
Molecular Formula	:	$C_{24}H_{28}F_3N_5O_2S$
Molecular Weight	:	507.58
Target	:	Deubiquitinase (DUB)
Solubility	:	10 mM in DMSO



Biological Activity

BAY-805 (BAY805) is the first highly potent, selective and non-covalent **USP21** inhibitor with IC50 of 6 nM and 2 nM in HTRF and Ub-rhodamine biochemical assays (hUSP21), respectively.
Cellular inhibition of USP21 with BAY-805 induced cellular NF-κB activation with an EC50 of 17 nM in the NF-κB reporter assays.
BAY-805 shows the strong competition effect and effectively prevents ubiquitin binding.
BAY-805 exhibites strong ligand-induced protein stabilization resulting in a substantial thermal shift in the melt curve of USP21.
BAY-805 exhibits no antiproliferative effect was observed in Jurkat, Molm-13, A549, MDA-MB-231, and U2OS cell lines at 30 uM.
BAY-805 shows no significant effect on the activity of any of other deubiquitinating enzyme (DUBs) target.

References

Fabian Göricke, et al. ***J Med Chem.*** 2023 Feb 20. doi: 10.1021/acs.jmedchem.2c01933.

E-mail: tech@probechem.com