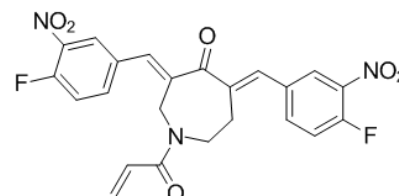


Product Name : VLX1570
Cat. No. : PC-43050
CAS No. : 1431280-51-1
Molecular Formula : C₂₃H₁₇F₂N₃O₆
Molecular Weight : 469.3944
Target : Deubiquitinase (DUB)
Solubility : DMSO: ≥ 32 mg/mL



Biological Activity

VLX1570 is a small molecule b-AP15 analog that functions as **proteasome deubiquitinase** inhibitor with IC₅₀ of 10 uM, interacts at the active sites of the proteasome DUBs **USP14** and UCHL5.

VLX1570 demonstrates cytotoxicity in survival assays in HCT116 colon cancer cells with IC₅₀ of 0.58 uM, shows no inhibitory activity on a panel of recombinant non-proteasome DUBs, recombinant kinases, or caspase-3.

VLX1570 decreases cell viability in chemotherapy resistant endometrial cancer cells consistent with cell cycle arrest and caspase-3 mediated apoptosis.

VLX1570 decreases tumor burden and prolongs survival in WM-xenografted mice.

References

- Wang X, et al. *Chem Biol Drug Des.* 2015 Nov;86(5):1036-48.
 Vogel RI, et al. *Oncotarget.* 2016 May 24;7(21):30962-76.
 Shukla N, et al. *Cancer Res.* 2016 Aug 1;76(15):4525-34.
 Wang X, et al. *Sci Rep.* 2016 Jun 6;6:26979. doi: 10.1038/srep26979.

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

E-mail: tech@probechem.com