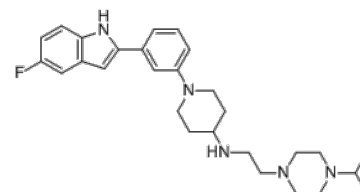


Product Name : UPCDC30245
Cat. No. : PC-63243
CAS No. : 1883351-01-6
Molecular Formula : C₂₈H₃₈FN₅
Molecular Weight : 463.63
Target : p97/VCP
Solubility : 10 mM in DMSO



Biological Activity

UPCDC-30245 is a potent, cell penetrant allosteric **p97/VCP** inhibitor with IC₅₀ of 300 nM (WT p97), also potently inhibits CB-5083 resistant p97 D649A/T688A mutant.

UPCDC-30245 inhibits proliferation of multiple cancer cell lines, with IC₅₀s ranging from 0.5-4 μM.

UPCDC-30245 also retains more activity toward CB-5083 resistant HCT116 cell line CB-R-HCT116, harboring p97 double mutant D649A/T688A than does CB-5083, exhibits the same potency in inhibiting the proliferation of CB-R-HCT116 cells as parental HCT116 cells.

UPCDC-30245 blocks endo-lysosomal degradation by inhibiting the formation of early endosome and reducing the acidity of the lysosome, an effect not observed with the potent p97 inhibitor CB-5083.

References

Segura-Cabrera A, et al. *Sci Rep.* 2017 Mar 21;7:44912.

Banerjee S, et al. *Science.* 2016 Feb 19;351(6275):871-5.

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

E-mail: tech@probechem.com