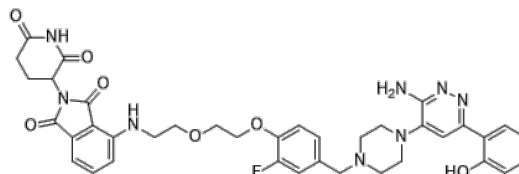


Product Name : SMARCA2 PROTAC YD23
Cat. No. : PC-23133
CAS No. : 2951015-29-3
Molecular Formula : C₃₈H₃₉FN₈O₇
Molecular Weight : 738.78
Target : PROTAC
Solubility : 10 mM in DMSO



CAS: 2951015-29-3

Biological Activity

SMARCA2 PROTAC YD23 is a potent and selective proteolysis targeting chimera (PROTAC) targeting SMARCA2 with DC50 of 64 nM in H1792 cells and Dmax of 88%.

YD23 selectively degrades SMARCA2 and inhibits the growth of SMARCA4-mutant lung cancer cell lines.

YD23 exhibits DC50 of 297 nM and a Dmax of 95% in H1975 SMARCA4-WT cells, minimal impact on SMARCA4 up to 10 μM.

YD23 potently degraded SMARCA2 with a median DC50 of 92.8 nM and achieving a Dmax of 90% on an additional panel of ten SMARCA4-WT cell lines.

YD23 selectively inhibits growth of SMARCA4-mutant lung cancer cell lines with IC50 of 0.11 μM (SMARCA4-WT cells, IC50=6 μM).

SMARCA2 degradation disrupts chromatin accessibility at enhancers to disable cell cycle transcriptional programs.

YD23 (12.5 mg/kg) inhibits growth of SMARCA4-mutant xenograft models of lung cancer.

References

Kotagiri S, et al. Cell Chem Biol. 2024 Oct 1:S2451-9456(24)00396-9.

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

E-mail: tech@probechem.com