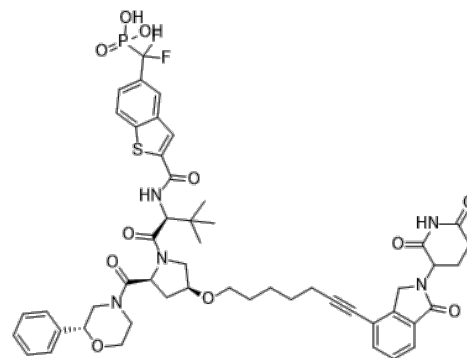


Product Name : AK-1690
Cat. No. : PC-23176
CAS No. : 2984505-88-4
Molecular Formula : C₅₁H₅₆F₂N₅O₁₁PS
Molecular Weight : 1016.06
Target : PROTAC
Solubility : 10 mM in DMSO



CAS: 2984505-88-4

Biological Activity

AK-1690 is the first, potent and selective **PROTAC STAT6** degrader with DC50 of 1 nM in MV4;11 cells, Dmax>95%.

AK-1690 shows no significant effect on STAT1, STAT3, STAT5, and pSTAT5Y694 up to 10 μM, and modest effect on STAT2 protein at 2 and 10 μM, with a maximum reduction of STAT2 protein of <40%.

AK-1690 effectively depleted STAT6 with a DC50 value of 80 nM and a Dmax value of >90% in human peripheral blood mononuclear cells (PBMCs).

AK-1690 effectively induces depletion of phosphorylated STAT6 (pSTAT6Y641).

AK-1690 is a potent and selective STAT6 degrader over other STAT members and >6,000 other proteins.

AK-1690 has no effect on cereblon neo-substrates IKZF1 and IKZF3, as well as IKZF2 and GSPT1, in the Jurkat cell line.

AK-1690 (200 mg/kg, i.p.) effectively depleted STAT6 protein in mouse lung and liver tissues.

References

Kaneshige A, et al. *J Med Chem*. 2024 Sep 23. doi: 10.1021/acs.jmedchem.4c01009.

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

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