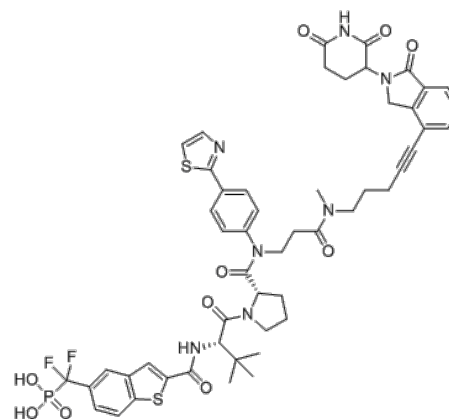


Product Name : AK-2292
Cat. No. : PC-49629
CAS No. : 2984506-77-4
Molecular Formula : C₅₂H₅₄F₂N₇O₁₀PS₂
Molecular Weight : 1070.13
Target : PROTAC
Solubility : 10 mM in DMSO



Biological Activity

AK-2292 (AK2292) is a first, potent and selective small-molecule degrader of both **STAT5A** (K_i=210 nM) and **STAT5B** (K_i=308 nM) isoforms.

AK-2292 effectively induces degradation of STAT5A, STAT5B, and phosphorylated STAT5 proteins in a concentration- and time-dependent manner in acute myeloid leukemia (AML) cell lines.

AK-2292 demonstrates excellent degradation selectivity for STAT5 over all other STAT members.

AK-2292 exerts potent and specific cell growth inhibitory activity in AML cell lines with high levels of phosphorylated STAT5.

AK-2292 effectively induces STAT5 depletion in normal mouse tissues and human chronic myeloid leukemia (CML) xenograft tissues and achieves tumor regression in CML xenograft mouse models.

References

Kaneshige A, et al. *Nat Chem Biol*. 2023 Feb 2. doi: 10.1038/s41589-022-01248-4.

Kaneshige A, et al. *J Med Chem*. 2023 Feb 3. doi: 10.1021/acs.jmedchem.2c01665.

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

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