Product Datasheet

AK-2292

Catalog No. **BP-06302** · CAS **2984506-77-4** · Form **free base** · Physical state **solid** · Color **Off-white to light yellow** · Version **1.0** · Revision **2026-11-16**

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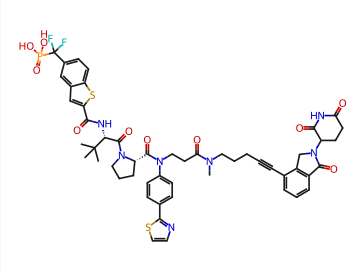
Target	Research area
PROTACs; STAT	**Cancer**

Molecular formula	$C_{52}H_{54}F_2N_7O_{10}PS_2$
Molecular weight	**1070.1270**

STRUCTURE



DESCRIPTION

AK-2292 is a potent and selective STAT5 PROTAC degrader, with a DC50 of 0.10 μM. AK-2292 induces degradation of STAT5A/B proteins in vitro and in vivo. AK-2292 can induce tumor regression in acute myeloid leukemia and chronic myeloid leukemia xenograft mouse models . AK-2292 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

BIOLOGICAL ACTIVITY

AK-2292 (0.0015-15 μM; 4 days) inhibits the cell growth of SKNO1, MV4;11, and Kasumi-3 cells, with IC50s of 0.36, 0.35, and 0.18 μM, respectively[1].

AK-2292 (0.008-5 μM; 18 h) reduces the levels of STAT5A, STAT5B and pSTAT5Y694 proteins in the SKNO1 cell line[1].

AK-2292 (0.008-5 μM; 6 h) effectively reduces the levels of STAT5 and pSTAT5Y694 in the MV4;11 acute leukemia cell line[1].

SOLUBILITY

Soluble in DMSO

In vitro	DMSO : 50 mg/mL

REFERENCES

[1]. Kaneshige A, et, al. Discovery of a Potent and Selective STAT5 PROTAC Degrader with Strong Antitumor Activity In Vivo in Acute Myeloid Leukemia. J Med Chem. 2023 Feb 3.

[2]. Kaneshige A, et, al. A selective small-molecule STAT5 PROTAC degrader capable of achieving tumor regression in vivo. Nat Chem Biol. 2023 Feb 2.

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