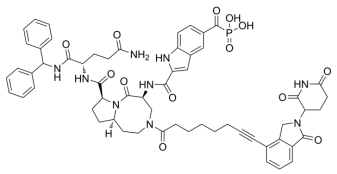
STAT3 degrader-2

Cat. No.:	HY-150251
CAS No.:	2497583-03-4
Molecular Formula:	$C_{59}H_{62}N_9O_{13}P$
Molecular Weight:	1136.15
Target:	STAT; PROTACs
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; PROTAC
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

STAT3 degrader-2 is a PROTAC-based degrader of STAT3. STAT3 degrader-2 can degrade the level of total STAT3 protein. STAT3 degrader-2 can be used for the research of cancer and other diseases[1]. STAT3 degrader-2 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

In Vitro

STAT3 degrader-2 (Compound 92) (0.2 μM, 1 μM, 30 nM, 100 nM, 300 nM; 3 h) decreased the level of total STAT3 protein in acute leukemia Molm-16 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	Acute leukemia Molm-16 cells
Concentration:	0.2 μM, 1 μM; 30 nM, 100 nM, 300 nM
Incubation Time:	3 h; 3 h; 6 h, 24 h, 48 h
Result:	Degraded the level of total STAT3 protein in acute leukemia Molm-16 cells.

In Vivo

STAT3 degrader-2 (Compound 92) (i.v.; 50 mg/kg; 6 h, 24 h, 48 h) decreased the level of total STAT3 protein and phosphorylated STAT3 (Y705) protein in acute leukemia Molm-16 tumors and SU-DHL-1 tumors in mice[1].

STAT3 degrader-2 (i.v.; 25, 50 mg/kg; qw) shows antitumor activity against Molm-16 xenograft tumors in mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice[1]
Dosage:	25, 50 mg/kg
Administration:	i.v.; qw
Result:	Showed antitumor activity in Molm-16 and SU-DHL-1 xenograft mice.

REFERENCES

[1]. Shaomeng Wang, et al. Small molecule degraders of stat3. Patent. WO2020198435A1.

Caution: Product has not been fully validated for medical applications. For research use only.

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