Data Sheet (Cat.No.T200117)

TargetMol

PROTAC FGFR2 degrader 1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	PROTAC FGFR2 degrader 1 (compound N5) is a potent PROTAC that efficiently targets FGFR2, boasting a DC 50 value of 6.46 nM and an FGFR2 IC 50 of 0.08 nM. This compound exhibits significant anti-proliferative effects and high selectivity. It induces G0/G1 arrest in the cell cycles of KATOIII and SNU16 and inhibits apoptosis by diminishing the activation of p-ERK and p-PLCγ, the downstream proteins of FGFR2. Additionally, PROTAC FGFR2 degrader 1 maintains over 50% inhibition of gastric cancer cells at a concentration of 0.17 nM and effectively suppresses the growth of SNU16 xenograft tumors in a mouse model.
Targets(IC50)	Apoptosis,FGFR,PROTACs
In vitro	PROTAC FGFR2 degrader 1 exhibits potent inhibitory activity in KATO III and SNU16 cells, with IC50 values below 0.17 nM (0-1000 nM; 72 h). Additionally, this compound (500 nM; 12 h; WB) selectively induces degradation of FGFR2 in KATO III, operating via the UPS pathway. Also, when administered at concentrations of 500 and 1000 nM over 24 hours, PROTAC FGFR2 degrader 1 induces cell cycle arrest at the G0/G1 phase in both KATO III and SNU16 cells.
In vivo	PROTAC FGFR2 degrader 1, when administered at doses of 10 mg/kg and 20 mg/kg via intraperitoneal injection, suppresses the growth of gastric cancer cells and reduces tumor weight in a subcutaneous xenograft SNU16 mouse model.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481