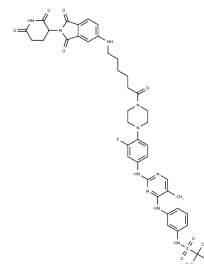


PROTAC FLT3/JAK2/BRD4 Degradar-1

Chemical Properties

CAS No. :	3067695-20-6
Formula:	C44H51FN10O7S
Molecular Weight:	883.00
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	PROTACFLT3/JAK2/BRD4 Degradar-1 is a PROTAC degrader targeting FLT3, JAK2, and BRD4, with DC50 values of 5.23 nM, 0.678 nM, and 1.17 nM, respectively. It exhibits potent antiproliferative activity against MV4;11 cells (IC50= 0.79 nM) and FLT3-mutated Ba/F3 cells. Additionally, PROTACFLT3/JAK2/BRD4 Degradar-1 induces apoptosis in MV4; 11 cells and demonstrates significant antitumor efficacy in an MV4;11 xenograft model established in NOD SCID mice. This compound is applicable for research in acute myeloid leukemia (AML).
Targets(IC50)	Epigenetic Reader Domain,FLT,JAK,PROTACs
In vitro	PROTAC FLT3/JAK2/BRD4 Degradar-1 (Compound 13e) effectively degrades FLT3, JAK2, and BRD4 in MV4;11 cells, with DC 50 values of 5.23 nM, 0.678 nM, and 1.17 nM, respectively. At a concentration of 1 μM over 8 hours, it induces the degradation of these proteins via the ubiquitin-proteasome system (UPS), relying on cereblon and the proteasome. Additionally, PROTAC FLT3/JAK2/BRD4 Degradar-1 inhibits proliferation in MV4;11 cells with an IC 50 of 0.79 nM at concentrations from 0.00001 to 1000 nM over 96 hours. The compound also exhibits potent antiproliferative effects on Ba/F3 cells transformed with FLT3 mutations, including FLT3-ITD-D835Y (IC 50 = 35.64 nM), FLT3-ITD-F691L (IC 50 = 24.34 nM), FLT3-ITD-N676D (IC 50 = 43.71 nM), FLT3-ITD-D835V (IC 50 = 6.63 nM), FLT3-ITD-Y842C (IC 50 = 8.80 nM), and FLT3-ITD (IC 50 = 28.62 nM) over 96 hours. Furthermore, within 48 hours and at concentrations ranging from 1 to 1000 nM, it induces over 70% apoptosis in MV4;11 cells.
In vivo	PROTAC FLT3/JAK2/BRD4 Degradar-1 (Compound 13e) administered intraperitoneally at 10 mg/kg once daily for 21 days demonstrates significant antitumor activity in an MV4; 11 xenograft model within NOD SCID mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1325 mL	5.6625 mL	11.325 mL
5 mM	0.2265 mL	1.1325 mL	2.265 mL
10 mM	0.1133 mL	0.5663 mL	1.1325 mL
50 mM	0.0227 mL	0.1133 mL	0.2265 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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