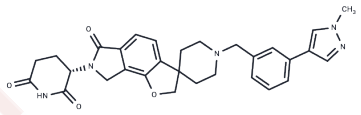
Data Sheet (Cat.No.T211233)

TargetMol

PVTX-405

Chemical Properties



CAS No. : 2991021-08-8

Formula: C30H31N5O4

Molecular Weight: 525.60

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	PVTX-405 is a selective oral IKZF2 molecular glue degrader with a DC50 of 0.7 nM and a maximum degradation (Dmax) of 91%. It enhances degradation efficiency, significantly reduces off-target degradation, and minimizes hERG inhibition with an IC50 of 48 μM. PVTX-405 effectively inhibits MC38 tumor growth in Crbn391VC57BL/6 mouse xenograft models and shows superior synergistic anticancer effects when combined with immune checkpoint therapies (ICTs) such as anti-PD1 or anti-LAG3 antibodies.
Targets(IC50)	Molecular Glues,Potassium Channel,IKZF
In vitro	PVTX-405 (Compound 16a) exhibits exceptional substrate selectivity, minimally affecting IKZF1, IKZF3, GSPT1, and CK1α protein levels even at concentrations up to 10 μM with a D max of less than 20%. In Jurkat cells, PVTX-405 (0.01-10000 nM, 1-6 hours) degrades IKZF2 in a CRBN-dependent manner, achieving a DC 50 of 6.3 nM and a D max of 65%, with maximum degradation occurring within 3 hours. At concentrations of 1-1000 nM over 24 hours, PVTX-405 effectively modulates established IKZF2 transcription targets, increasing the inflammatory cytokine IL-2 and reducing the suppressive activity of Tregs, thus promoting Teff cell proliferation in Jurkat T cells. Additionally, PVTX-405 (0.1-1000 nM, 3-6 hours) induces dose-dependent degradation of IKZF2, disrupts the stability of human Treg cells, and triggers the proliferation of Teff cells.
In vivo	PVTX-405 (Compound 16a), administered orally at 30 mg/kg once daily for 21 days, significantly inhibits the growth of MC38 tumors in the Crbn 391V C57BL/6 mouse-derived MC38 tumor xenograft model. Additionally, when used in combination with anti-PD1 or anti-LAG3 antibodies, it enhances survival rates in mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9026 mL	9.5129 mL	19.0259 mL
5 mM	0.3805 mL	1.9026 mL	3.8052 mL
10 mM	0.1903 mL	0.9513 mL	1.9026 mL
50 mM	0.0381 mL	0.1903 mL	0.3805 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.