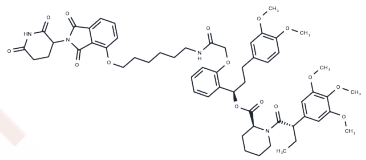
Data Sheet (Cat.No.T11291)

TargetMol

FKBP12 PROTAC dTAG-13

Chemical Properties



CAS No. : 2064175-41-1

Formula: C57H68N4O15

Molecular Weight: 1049.17

Storage: Store at low temperature
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	FKBP12 PROTAC dTAG-13 is a PROTAC and selective degrader that can be used for target validation during drug discovery by splicing FKBP12 F36V with CRBN and thereby degrading FKBP12 F36V.
Targets(IC50)	FKBP,mTOR,PROTACs
In vitro	FKBP12 PROTAC dTAG-13 selectively degrades FKBP12^F36V fusion proteins without affecting wild-type FKBP12. In 293T, PATU-8988T, and EOL-1 cells, FKBP12 PROTAC dTAG-13 (500nM, 4h) effectively degraded FKBP12^F36V-KRAS^G12V or FKBP12^F36V-ABL1 and suppressed downstream signaling. Dose-dependent degradation was observed from 10 to 500nM[1].
In vivo	In NOD/SCID mice bearing PATU-8988T FKBP12^F36V-KRAS^G12V xenografts, a single intraperitoneal dose of FKBP12 PROTAC dTAG-13 (35mg/kg) reduced fusion protein levels in tumors within 2h, lasting ≥12h[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (76.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (3.15 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9531 mL	4.7657 mL	9.5313 mL
5 mM	0.1906 mL	0.9531 mL	1.9063 mL
10 mM	0.0953 mL	0.4766 mL	0.9531 mL
50 mM	0.0191 mL	0.0953 mL	0.1906 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.

Reference

Nabet B, et al. The dTAG system for immediate and target-specific protein degradation. Nat Chem Biol. 2018 May; 14(5):431-441.