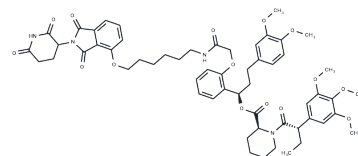


FKBP12 PROTAC dTAG-13

Chemical Properties

CAS No. :	2064175-41-1
Formula:	C57H68N4O15
Molecular Weight:	1049.17
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	FKBP12 PROTAC dTAG-13 (dTAG-13) is a degrader of FKBP12F36V with expression of FKBP12F36V in-frame with a protein of interest. FKBP12 PROTAC dTAG-13 (dTAG-13) also is a selective degrader of BET bromodomain transcriptional co-activator BRD4 by bridging BET bromodomains to an E3 ubiquitin ligase CRBN. FKBP12 PROTAC dTAG-13 (dTAG-13) is a PROTAC-based heterobifunctional degrader.
Targets(IC50)	Epigenetic Reader Domain,PROTACs
In vitro	dTAG-13 treatment leads to rapid and potent degradation of the BRD4 fusion chimera in the heterozygous and homozygous knock-in clones, with no effect on endogenous FKBP12WT.TAG-13 (1-1000 nM; 4 hours; 293FTWT cells) treatment potently reduces FKBP12F36V-Nluc levels in 293FTWT cell, indicating the requirement of CRBN for the observed effects. Treatment of MV4;11 cells expressing BRD4(short)-FKBP12F36V with dTAG-13 leads to robust degradation of BRD4. dTAG-13 treatment leads to rapid degradation of BRD4 within one hou.
In vivo	After bone marrow transplantation of mice with MV4;11 cells expressing luc-FKBP12F36V, monitoring of the bioluminescent signal reveals a significant, rapid, and lasting reduction in bioluminescence four hours after dTAG-13 administration, compared to the vehicle control, signifying effective breakdown of luc-FKBP12F36V. Moreover, 28 hours post the final dTAG-13 treatment, bioluminescence levels equalize between the dTAG-13 and vehicle groups, indicating recovery.

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.

Reference

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

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