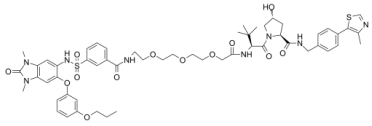
Data Sheet

Product Name:	dTRIM24
Cat. No.:	CS-0042317
CAS No.:	2170695-14-2
Molecular Formula:	C55H68N8O13S2
Molecular Weight:	1113.30
Target:	Epigenetic Reader Domain; PROTAC
Pathway:	Epigenetics; PROTAC
Solubility:	Ethanol : < 1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

dTRIM24 is a selective bifunctional degrader of **TRIM24** based on **PROTAC**. IC50 & Target: TRIM24[2]. **In Vitro:** dTRIM24 is a degrader of TRIM24 bromodomain. Recruitment of the VHL E3 ubiquitin ligase by dTRIM24 elicits potent and selective degradation of TRIM24. The anti-proliferative consequences of chemical degradation versus inhibition of TRIM24 are assessed. Growth over time is determined for MOLM-13 cells treated with dTRIM24, IACS-9571, VL-269, and eTRIM24. dTRIM24 suppresses growth to a greater extent than does IACS-9571, accompanied by apoptosis measured as enhanced PARP cleavage. In agreement with a sustained proliferative defect observed following dTRIM24 treatment, near-complete degradation of TRIM24 is observed in dTRIM24-treated cells throughout the duration of the experiment[2].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: [2]**MOLM-13 cells** are seeded at 30,000 cells/well. Growth over time of MOLM-13 cells treated with **5 μM** of indicated compounds (e.g., **dTRIM24**) over 7 d. At endpoints, cells are suspended and mixed with Viacount reagent at 1:3. The mixture is incubated for 5 min, and viable cells are counted on the Guava easycyte flow cytometer. Means from three technical replicates of cell counts are calculated[2].

References:

[1]. Gechijian LN, et al. Functional TRIM24 degrader via conjugation of ineffectual bromodomain and VHL ligands. Nat Chem Biol. 2018 Apr;14(4):405-412.

CAIndexNames:

(2S,4R)-1-((S)-15-(tert-butyl)-1-(3-(N-(1,3-dimethyl-2-oxo-6-(3-propoxyphenoxy)-2,3-dihydro-1H-benzo[d]imidazol-5-yl)sulfamoyl)phenyl)-1,13-dioxo-5,8,11-trioxa-2,14-diazahexadecan-16-oyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide

SMILES:

CN(C(N1C)=O)C2=C1C=C(OC3=CC=CC(OCCC)=C3)C(NS(C4=CC(C(NCCOCCOCCOCC(N[C@H](C(N5[C@H](C(NCC6=CC=C(C7=C(C)N=CS7)C=C6)=O)C[C@@H](O)C5)=O)C(C)(C)C)=O)=O)=CC=C4)(=O)=O)=C2

Caution: Product has not been fully validated for medical applications. For research use only.

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