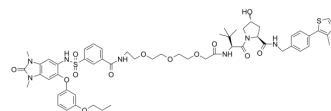


dTRIM24

Cat. No.:	HY-111519		
CAS No.:	2170695-14-2		
Molecular Formula:	C ₅₅ H ₆₈ N ₈ O ₁₃ S ₂		
Molecular Weight:	1113.3		
Target:	PROTACs; Epigenetic Reader Domain		
Pathway:	PROTAC; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (89.82 mM; Need ultrasonic)
 Ethanol : < 1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.8982 mL	4.4912 mL	8.9823 mL
	5 mM	0.1796 mL	0.8982 mL	1.7965 mL
	10 mM	0.0898 mL	0.4491 mL	0.8982 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (2.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (2.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

dTRIM24 is a selective bifunctional degrader of TRIM24 based on PROTAC, consists of ligands for von Hippel-Lindau and TRIM24.

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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay ^[2]

MOLM-13 cells are seeded at 30,000 cells/well. Growth over time of MOLM-13 cells treated with 5 μ M 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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Mol Cell. 2021 Apr 1;81(7):1411-1424.e7.
- J Transl Med. 2021 Dec 9;19(1):505.

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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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA