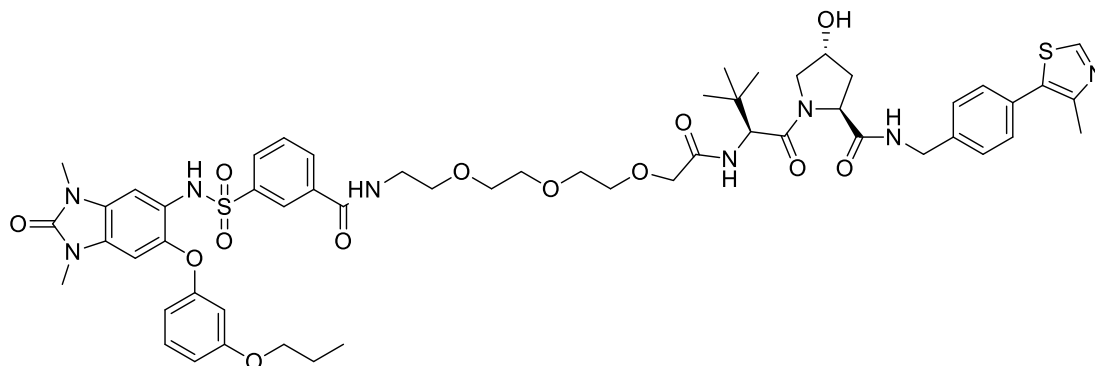


dTRIM24



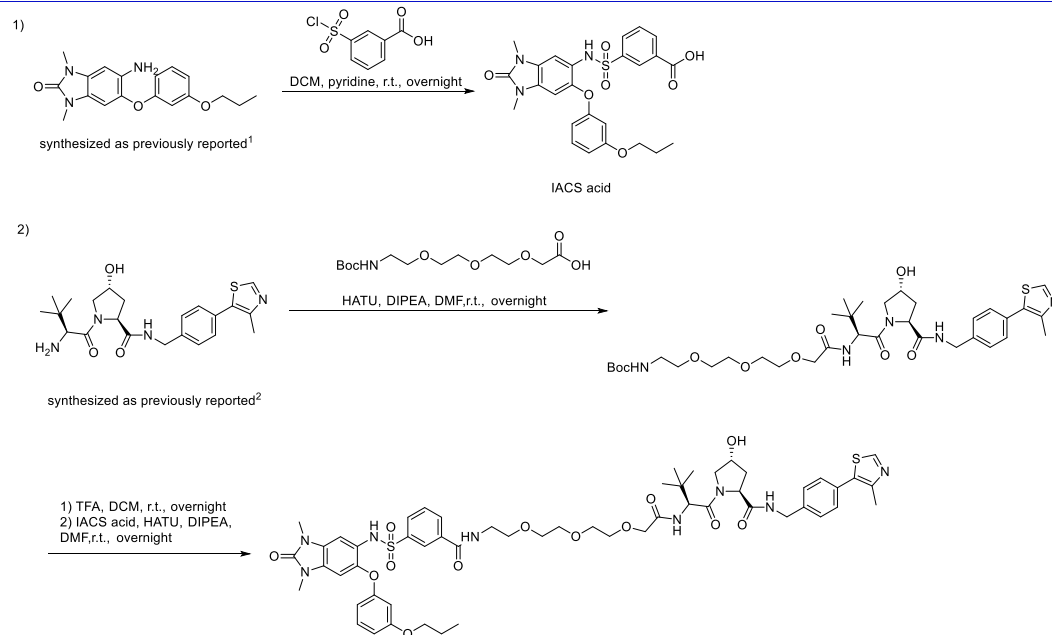
Chemical Formula: C₅₅H₆₈N₈O₁₃S₂
Molecular Weight: 1113.31

Category	Parameter	Description
Compound	Name	dTRIM24
	Citation	<i>Nature Chemical Biology</i> volume 14 , pages405–412 (2018) https://www.nature.com/articles/s41589-018-0010-y
	Chemical descriptors	<chem>O=C(N1C)N(C)C2=C1C=C(OC3=CC=CC(OCCC)=C3)C(NS(C4=CC(C(NCCOCCOCCOCC(N[C@@H](C(C)(C)C)C(N5C[C@H](O)C[C@H]5C(NC6=CC=C(C7=C(C)N=CS7)C=C6)=O)=O)=O)=O)=CC=C4)(=O)=O)=C2</chem>
	Chemical name	(2 <i>S</i> ,4 <i>R</i>)-1-((<i>S</i>)-15-(<i>tert</i> -butyl)-1-(3-(<i>N</i> -(1,3-dimethyl-2-oxo-6-(3-propoxyphenoxy)-2,3-dihydro-1 <i>H</i> -benzo[<i>d</i>]imidazol-5-yl)sulfamoyl)phenyl)-1,13-dioxo-5,8,11-trioxa-2,14-diazahexadecan-16-oyl)-4-hydroxy- <i>N</i> -(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide
	Entries in chemical databases	N/A
	Availability	N/A
	Papers that use the compounds	https://www.ncbi.nlm.nih.gov/pubmed/?term=dtrim24
<i>In vitro</i> profiling	Target (potency)	TRIM24 alphascreen (337.3 nM)
	Target (potency)	
	Selectivity	Bromoscan profiling with BRPF1 as an off target in vitro
	Potential reactivity	
	SAR	
	Mechanism of inhibition	Degradation of TRIM24 target
	Structure of target-probe complex	N/A
Additional comments		
Cellular profiling	Validation of cellular target	Dose-dependent degradation of TRIM24 with maximum degradation at 2.5uM in MOLM-13 cells.
	Validation of cellular specificity	Selective degradation of TRIM24 in MCF-7 and MOLM-13 cells by proteomic analysis at 4H with 2.5uM treatment
	Additional comments	

Pharmacodynamics N/A

Pharmacokinetics N/A

Synthetic
scheme



References:

1. Palmer, W. S. et al. Structure-guided design of IACS-9571, a selective high-affinity dual TRIM24-BRPF1 bromodomain inhibitor. *J. Med. Chem.* 59, 1440–1454 (2016).
2. Compounds and methods for the inhibition of vcb e3 ubiquitin ligase. WO 2013106646.