

Product Name: dTAG-13

Catalog No.: 6605

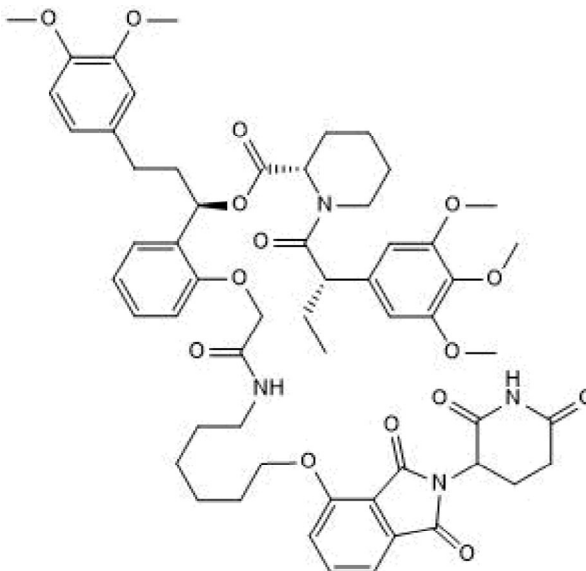
Batch No.: 1

CAS Number: 2064175-41-1

IUPAC Name: 1-[(2S)-1-Oxo-2-(3,4,5-trimethoxyphenyl)butyl]-(2S)-2-piperidinecarboxylate (1R)-3-(3,4-dimethoxyphenyl)-1-[2-[2-[[6-[[2-(2,6-dioxo-3-piperidinyl)-2,3-dihydro-1,3-dioxo-1H-isoindol-4-yl]oxy]hexyl]amino]-2-oxoethoxy]phenyl]propyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₅₇ H ₆₈ N ₄ O ₁₅
Batch Molecular Weight:	1049.18
Physical Appearance:	Off White solid
Solubility:	DMSO to 50 mM ethanol to 20 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.53 (Dichloromethane:Methanol [95:5])
HPLC:	Shows 100% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	65.25	6.53	5.34
Found	65.09	6.57	5.34

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

dTAG-13 is a degrader targeting mutant FKBP12^{F36V} fusion proteins. Comprises a ligand selective for F36V single-point mutated FKBP12, a linker and a cereblon-binding ligand. Application of dTAG-13 induces rapid, reversible and selective degradation of FKBP12^{F36V} fusion proteins in vitro and in vivo. dTAG is generalizable to a range of fusion proteins; useful as an alternative to genetic methods for target validation. Negative control (Cat. No. 6916) also available. FKBP12^{F36V} can be expressed as a fusion with a target protein of interest using genome engineering techniques, via transgene expression or CRISPR-mediated locus-specific knock-out. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

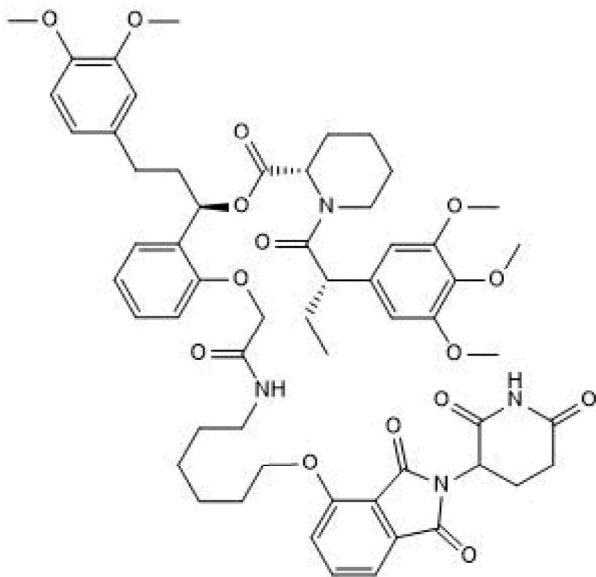
Batch Molecular Formula: C₅₇H₆₈N₄O₁₅

Batch Molecular Weight: 1049.18

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute

References:

Abuhashem et al (2022) Generation of knock-in degen tags for endogenous proteins in mice using the dTAG system. STAR Protoc. **3** 101660. PMID: 36097386.

Bensimon et al (2020) Targeted degradation of SLC transporters reveals amenability of multi-pass transmembrane proteins to ligand-induced proteolysis. Cell Chem Biol. **27** 728. PMID: 32386596.

Nabholz et al (2018) The dTAG system: immediate and target-specific protein degradation. Mol Cell. **71** 431. PMID: 29581585.

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