

Product Name: dTAG-7

Catalog No.: 6912

Batch No.: 2

CAS Number: 2064175-32-0

IUPAC Name: (1*R*)-3-(3,4-Dimethoxyphenyl)-1-(2-((19-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)oxy)-2,18-dioxo-7,10,13-trioxa-3,17-diazanonadecyl)oxy)phenyl)propyl (2*S*)-1-((*S*)-2-(3,4,5-trimethoxyphenyl)butanoyl)piperidine-2-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₃H₇₉N₅O₁₉.H₂O

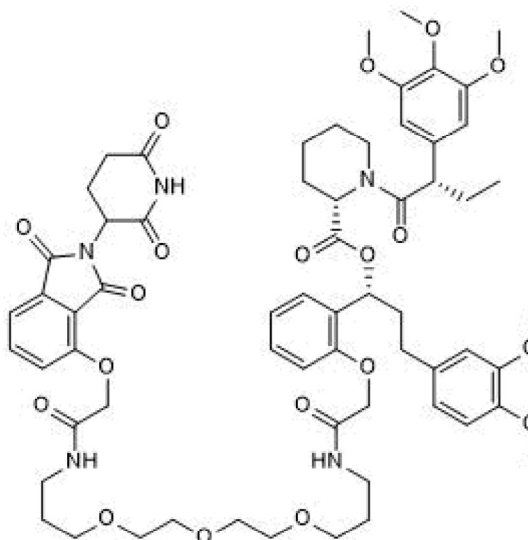
Batch Molecular Weight: 1228.34

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	61.6	6.65	5.7
Found	61.3	6.56	5.72

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

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Description:

dTAG-7 is a first generation Degradator for 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-7 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. See also dTAG-13. 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-in. Plasmid vectors fo... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

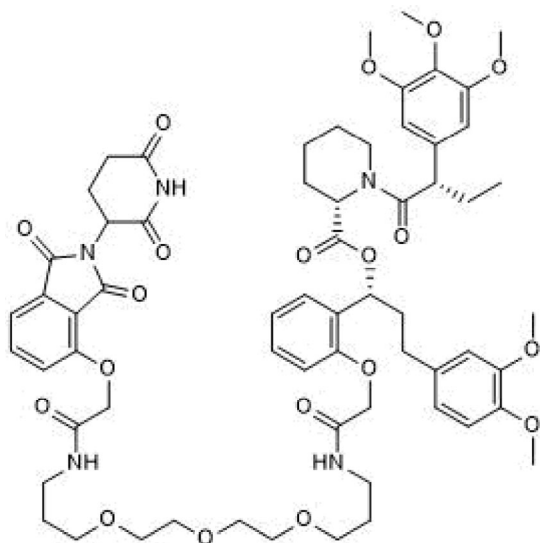
Batch Molecular Formula: C₆₃H₇₉N₅O₁₉.H₂O

Batch Molecular Weight: 1228.34

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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:

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.

Huang et al (2018) A chemoproteomic approach to query the degradable kinome using a multi-kinase degrader. *Cell Chem.Biol.* **25** 88. PMID: 29129717. Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Moser et al (2018) Acute pharmacologic degradation of a stable antigen enhances its direct presentation on MHC class I molecules. *Front Immunol* **9** 1920. PMID: 30259938

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