

Product Name: dTAG-13

Catalog No.: 6605

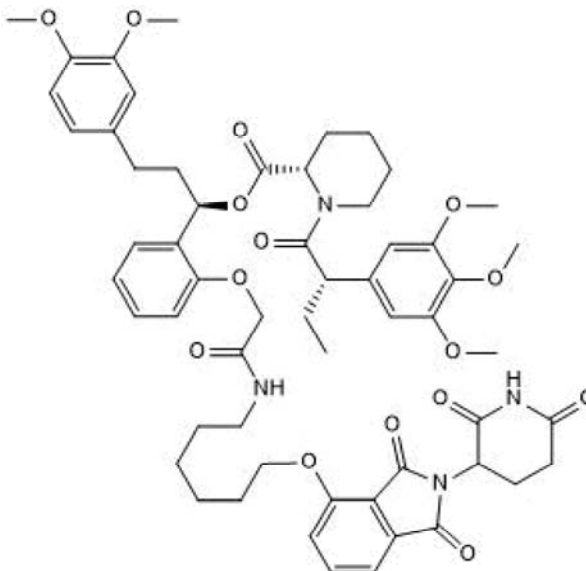
Batch No.: 3

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-piperidiny)-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: C₅₇H₆₈N₄O₁₅
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

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.25	6.53	5.34
Found	65.39	6.32	5.13

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

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Description:

PROTAC targeting mutant FKBP12^{F36V} fusion proteins. Comprises a ligand selective for F36V single-point mutated FKBP12, a linker and a cereblon-binding ligand. 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). 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. Plasmid vectors for the lentiviral expression and CRISPR-med... Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

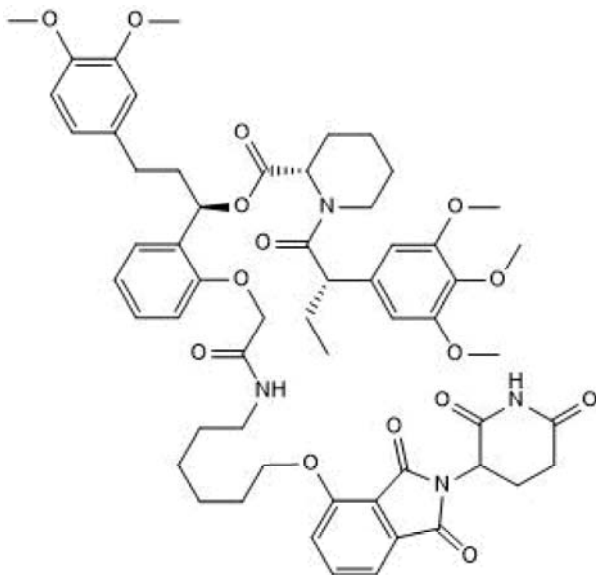
Batch Molecular Formula: C₅₇H₆₈N₄O₁₅

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. Our standard recommendations are:

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:

Nabet et al (2018) The dTAG system for immediate and target-specific protein degradation. *Nat.Chem.Biol.* **14** 431. PMID: 29581585.

Erb et al (2017) Transcription control by the ENL YEATS domain in acute leukaemia. *Nature* **543** 270. PMID: 28241139.

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