

**Product Name:** dTAG-13

**Catalog No.:** 6605

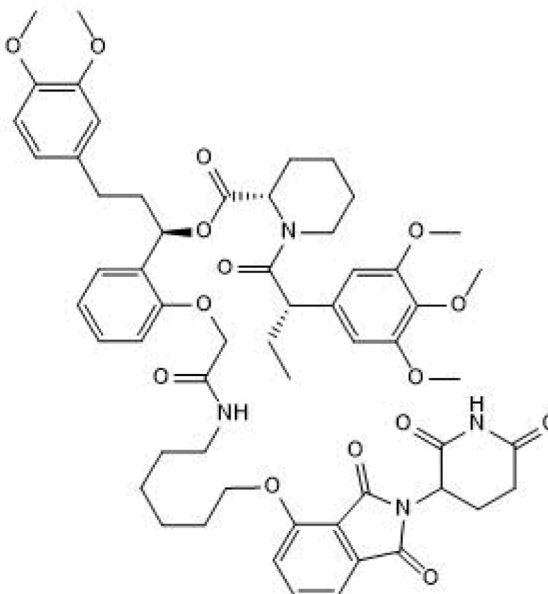
**Batch No.:** 6

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)l)-2,3-dihydro-1,3-dioxo-1H-isoindol-4-yl]oxy]hexyl]amino]-2-oxoethoxy]phenyl]propyl ester

## 1. PHYSICAL AND CHEMICAL PROPERTIES

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



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.1% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	65.25	6.53	5.34
Found	64.92	6.47	5.23

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<sup>F36V</sup> 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<sup>F36V</sup> 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<sup>F36V</sup> 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:**

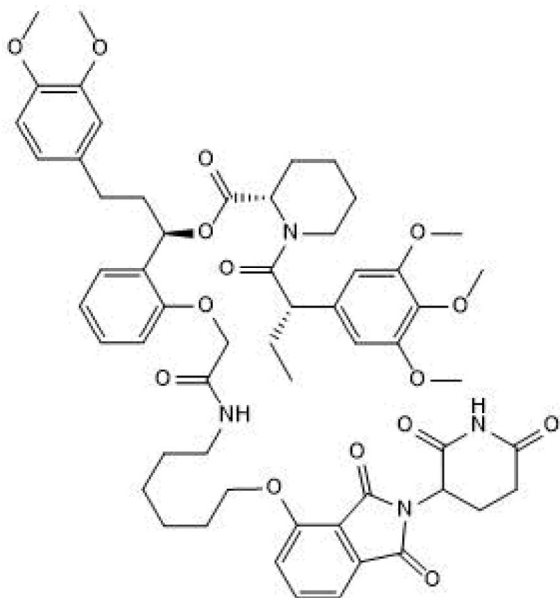
Batch Molecular Formula: C<sub>57</sub>H<sub>68</sub>N<sub>4</sub>O<sub>15</sub>.

Batch Molecular Weight: 1049.18

Physical Appearance: 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.

**Other Information:**

The HPLC purity includes a tolerance for up to 3% of a minor diastereomer

**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

**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 leukemia. *Nature* **543** 270. PMID: 28241439