

**Product Name:** dTAG-13

**Catalog No.:** 6605

**Batch No.:** 5

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:** C<sub>57</sub>H<sub>68</sub>N<sub>4</sub>O<sub>15</sub>·¼H<sub>2</sub>O

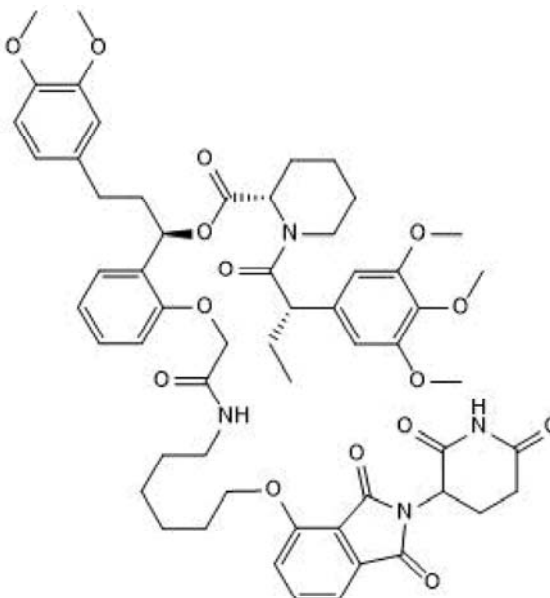
**Batch Molecular Weight:** 1053.68

**Physical Appearance:** White solid

**Solubility:** DMSO to 50 mM  
ethanol to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.0% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.97	6.55	5.32
Found	64.68	6.48	5.35

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

**Product Name:** dTAG-13

**Catalog No.:** 6605

**Batch No.:** 5

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

**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:**

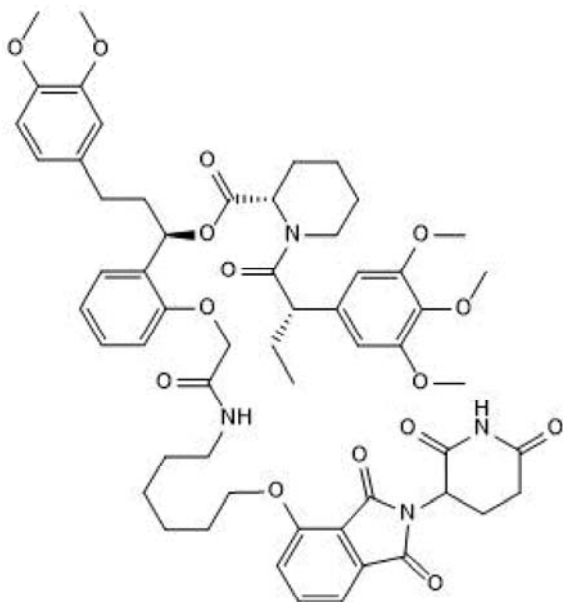
Batch Molecular Formula: C<sub>57</sub>H<sub>68</sub>N<sub>4</sub>O<sub>15</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 1053.68

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. 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:**

**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.

**Bio-techne.com** Transcription of the ENL YEATS domain in acute leukemia. *Nat.Chem.Biol.* **13** 270. PMID: 28241190

info@bio-techne.com      Tel: (800) 343 7475      info.cn@bio-techne.com      Tel: +44 (0)1235 529449      www.tocris.com/distributors  
techsupport@bio-techne.com      Tel: +86 (21) 52380373      Tel: +1 612 379 2956