

**Product Name:** dTAG<sup>V</sup>-1

**Catalog No.:** 6914

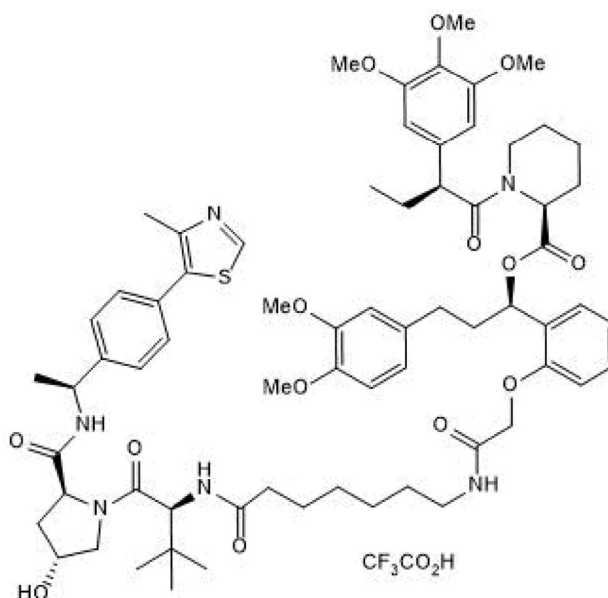
**Batch No.:** 6

**CAS Number:** 2624313-15-9

**IUPAC Name:** (R)-3-(3,4-Dimethoxyphenyl)-1-(2-(2-((7-(((S)-1-((2S,4R)-4-hydroxy-2-(((S)-1-(4-(4-methylthiazol-5-yl)phenyl)ethyl)carbamoyl)pyrrolidin-1-yl)-3,3-dimethyl-1-oxobutan-2-yl)amino)-7-oxoheptyl)amino)-2-oxoethoxy)phenyl)propyl (S)-1-((S)-2-(3,4,5-trimethoxyphenyl)butanoyl)piperidine-2-carboxylate trifluoroacetate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>68</sub> H <sub>90</sub> N <sub>6</sub> O <sub>14</sub> S CF <sub>3</sub> CO <sub>2</sub> H.2H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	1397.61
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	DMSO to 100 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.3% 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	60.16	6.85	6.01
Found	59.3	6.57	5.84

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

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**Description:**

dTAG<sup>V</sup>-1 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 von Hippel-Lindau (VHL) -binding ligand. Induces potent and selective degradation of FKBP12<sup>F36V</sup> fusion proteins in vitro and in vivo. Selectively degrades FKBP12<sup>F36V</sup>-EWS/FLI fusion proteins and inhibits cell proliferation in FKBP12<sup>F36V</sup>-EWS/FLI-expressing Ewing sarcoma cells. Hydrochloride salt (Cat.No. 7374) available; suitable for in vivo use. Negative control dTAG<sup>V</sup>-1-NEG (Cat. No. 6915) also available. FKBP12<sup>F36V</sup> can be expressed as a fusion with a target protein of interest using geno... Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

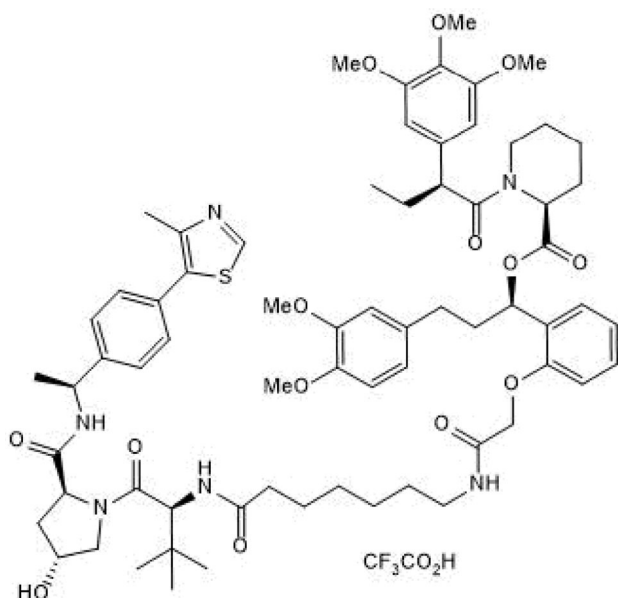
Batch Molecular Formula: C<sub>68</sub>H<sub>90</sub>N<sub>6</sub>O<sub>14</sub>S CF<sub>3</sub>CO<sub>2</sub>H.2H<sub>2</sub>O

Batch Molecular Weight: 1397.61

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 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:**

**Abuhashem et al (2022)** Generation of knock-in degron tags for endogenous proteins in mice using the dTAG system. STAR Protoc. **3** 101660. PMID: 36097386. Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**Nabet et al (2020)** Rapid and direct control of target protein levels with VHL-recruiting dTAG molecules. Nat. Commun. **11** 4687. PMID: 32948771

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