

Product Name: dTAG^V-1

Catalog No.: 6914

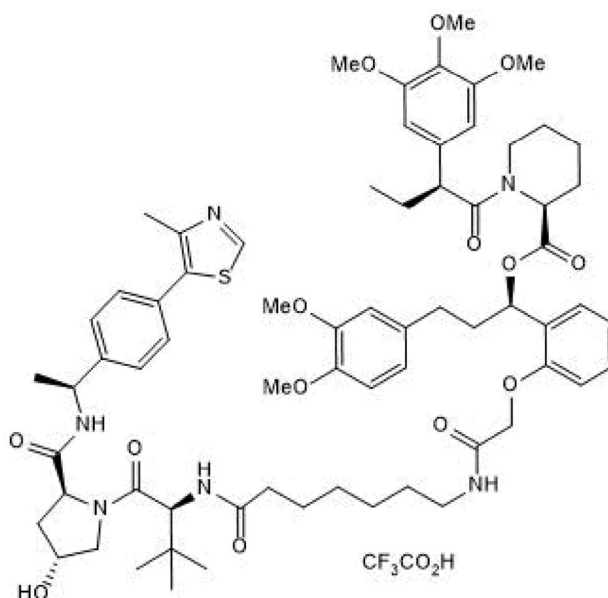
Batch No.: 5

CAS Number: 2624313-15-9

IUPAC Name: (*R*)-3-(3,4-Dimethoxyphenyl)-1-(2-(2-((*S*)-1-((2*S*,4*R*)-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

Batch Molecular Formula:	C ₆₈ H ₉₀ N ₆ O ₁₄ S CF ₃ CO ₂ H.1 ³ / ₄ H ₂ O
Batch Molecular Weight:	1393.1
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.3% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	60.35	6.84	6.03
Found	59.44	6.44	5.87

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

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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

Description:

dTAG^V-1 is a degrader targeting mutant FKBP12^{F36V} 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^{F36V} fusion proteins in vitro and in vivo. Selectively degrades FKBP12^{F36V}-EWS/FLI fusion proteins and inhibits cell proliferation in FKBP12^{F36V}-EWS/FLI-expressing Ewing sarcoma cells. Hydrochloride salt (Cat.No. 7374) available; suitable for in vivo use. Negative control dTAG^V-1-NEG (Cat. No. 6915) also available. FKBP12^{F36V} 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:

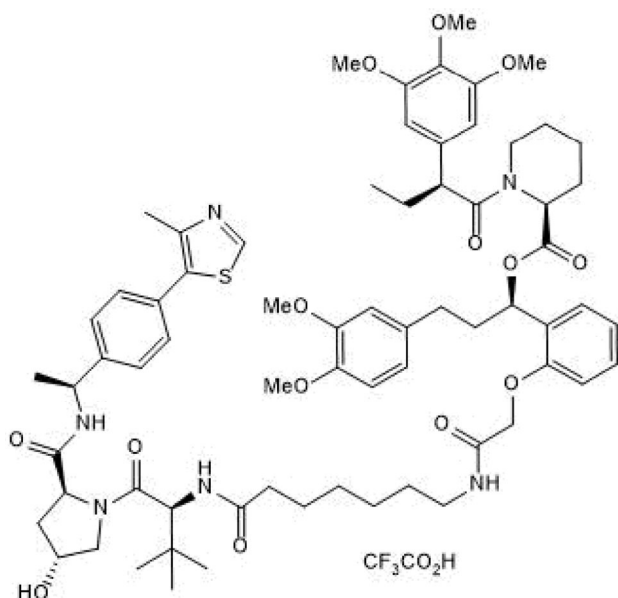
Batch Molecular Formula: C₆₈H₉₀N₆O₁₄S CF₃CO₂H.1³/₄H₂O

Batch Molecular Weight: 1393.1

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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