

Product Name: dTAG^V-1

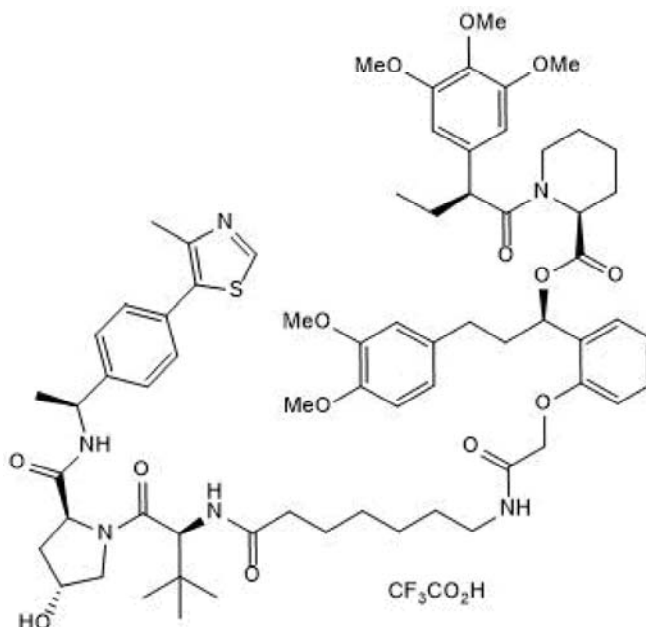
Catalog No.: 6914

Batch No.: 1

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

Batch Molecular Formula:	C ₆₈ H ₉₀ N ₆ O ₁₄ S CF ₃ CO ₂ H.1½H 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

TLC:	R _f = 0.23 (Dichloromethane:Methanol [95:5])
HPLC:	Shows 99% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	60.35	6.84	6.03
Found	59.93	6.71	6.04

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

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Description:

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 genome engineerin... Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

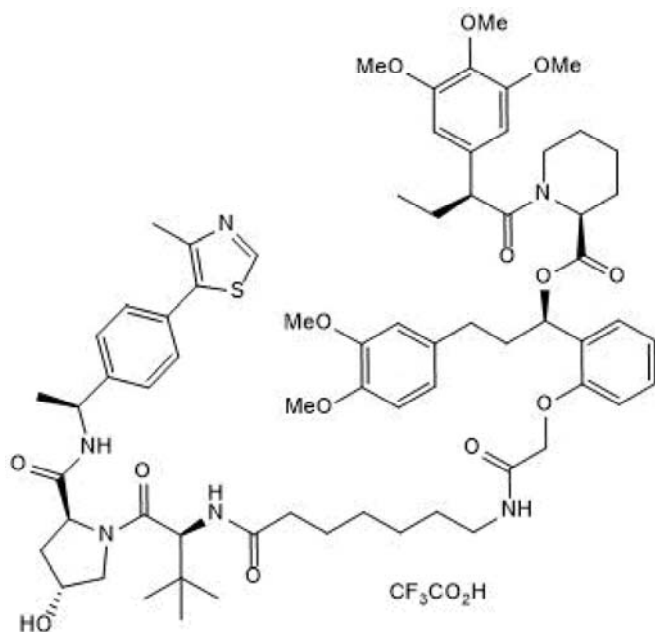
Batch Molecular Formula: C₆₆H₉₀N₆O₁₄S CF₃CO₂H.1¼H₂O

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

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