Certificate of Analysis

Product Name: **dTAG^V-1** **Catalog No.: 6914** **Batch No.: 1**

IUPAC Name: (*R*)-3-(3,4-Dimethoxyphenyl)-1-(2-(2-(((7-(((*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: $C_{68}H_{90}N_6O_{14}S\ CF_3CO_2H.1¾H_2O$

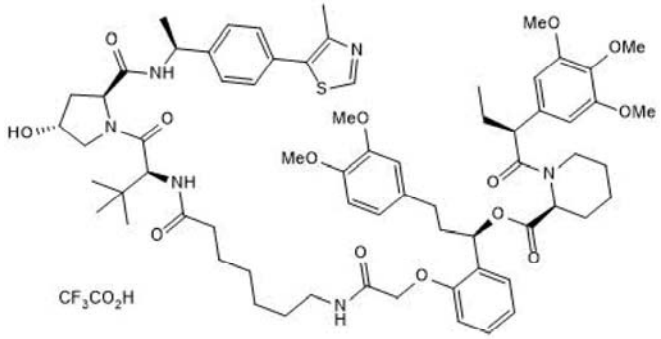
Batch Molecular Weight: 1393.1

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

^{1}H 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

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 Information

Product Name: **dTAG^V-1** **Catalog No.: 6914** **Batch No.: 1**

IUPAC Name: (*R*)-3-(3,4-Dimethoxyphenyl)-1-(2-(2-(((7-(((*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

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. 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 engineering techniques, via transgene expression or CRISPR-mediated locus-specific k... Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

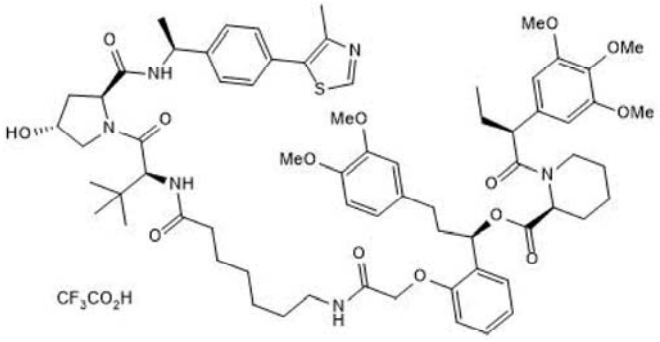
Batch Molecular Formula: $C_{68}H_{90}N_6O_{14}S$ $CF_3CO_2H.1¾H_2O$

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.