

Product Name: dTAG^V-1 hydrochloride

Catalog No.: 7374

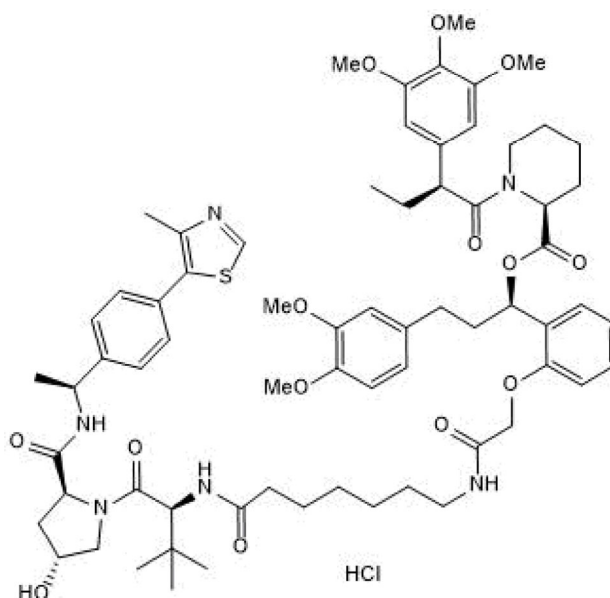
Batch No.: 2

CAS Number: 2624313-16-0

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 hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₈H₉₀N₆O₁₄S.HCl
Batch Molecular Weight: 1284.01
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen | Chlorine |
|-------------|--------|----------|----------|----------|
| Theoretical | 63.61 | 7.14 | 6.55 | 2.76 |
| Found | 62.7 | 7.2 | 6.19 | 1.56 |

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

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2

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Description:

dTAG^V-1 hydrochloride is a hydrochloride salt of dTAG^V-1 (Cat. No. 6914). Suitable for use in vivo. Following ip administration of 10 mg/kg in mice: T_½ = 4.43 h; C_{max} = 2123 ng mL⁻¹; AUC_{inf} = 18517 hr*ng mL⁻¹ and CL = 9.05 mL min⁻¹ kg⁻¹. Negative control dTAG^V-1-NEG (Cat. No. 6915) also available. Important: It is recommended that DMSO stock solutions of this compound are made and used on the same day and are not subjected to freeze/thaw.

Physical and Chemical Properties:

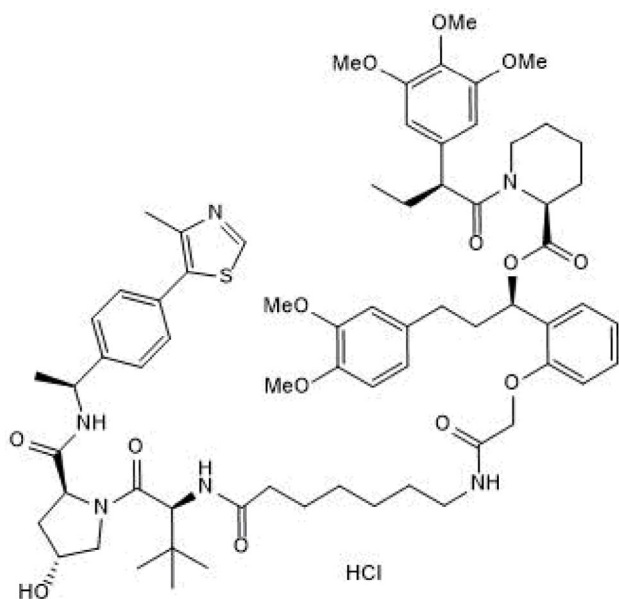
Batch Molecular Formula: C₆₈H₉₀N₆O₁₄S.HCl

Batch Molecular Weight: 1284.01

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

It is recommended that DMSO stock solutions of this compound are made and used on the same day and are not subjected to freeze/thaw.

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.

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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