

**Product Name:** VTP 27999 trifluoroacetate

**Catalog No.:** 5563

**Batch No.:** 1

CAS Number: 1013937-63-7

IUPAC Name: Methyl N-[2-[(R)-(3-Chlorophenyl)[(3R)-1-[[[(2S)-2-(methylamino)-3-[(3R)-tetrahydro-2H-pyran-3-yl]propyl]amino]carbonyl]-3-piperidinyl]methoxy]ethyl]carbamate trifluoroacetate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>26</sub>H<sub>41</sub>ClN<sub>4</sub>O<sub>5</sub>.CF<sub>3</sub>CO<sub>2</sub>H.¼H<sub>2</sub>O

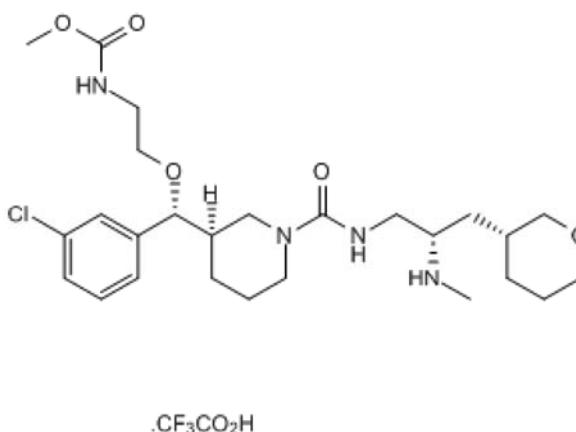
**Batch Molecular Weight:** 643.6

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 96.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	52.25	6.66	8.71
Found	52.08	6.96	8.8

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**Description:**

Highly potent and selective renin inhibitor (IC<sub>50</sub> = 0.47 nM). Displays >1000-fold selectivity over related and unrelated off-targets. Blocks renin-stimulated ERK1/2 phosphorylation in vascular smooth muscle cells. Exhibits a different mode of action to aliskiren (Cat. No. 5491).

**Physical and Chemical Properties:**

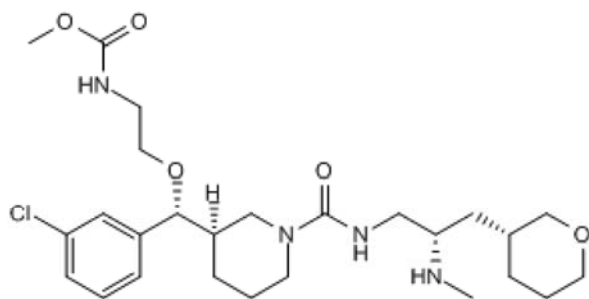
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Batch Molecular Weight: 643.6

Physical Appearance: White solid

**Minimum Purity:** ≥97%

**Batch Molecular Structure:**



.CF<sub>3</sub>CO<sub>2</sub>H

**References:**

Lu *et al* (2014) Renin inhibitor VTP-27999 differs from aliskiren: focus on their intracellular accumulation and the (pro)renin receptor. *J.Hypertens.* **32** 1255. PMID: 24637873.

Jia *et al* (2011) Discovery of VTP-27999, an alkyl amine renin inhibitor with potential for clinical utility. *ACS Med.Chem.Lett.* **2** 747. PMID: 24900262.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM

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.

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