

Product Name: SSM 3 trifluoroacetate

Catalog No.: 5253

Batch No.: 2

CAS Number: 2320930-10-5

IUPAC Name: *rel-N,N'*-[[[(1*R*,3*S*,4*S*,6*R*)-4,6-Bis[(aminoiminomethyl)amino]-1,3-cyclohexanediy]]bis(oxy-4,1-phenylene)] bisguanidine tetratrifluoroacetate salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₂N₁₂O₂.4CF₃CO₂H.1½H₂O

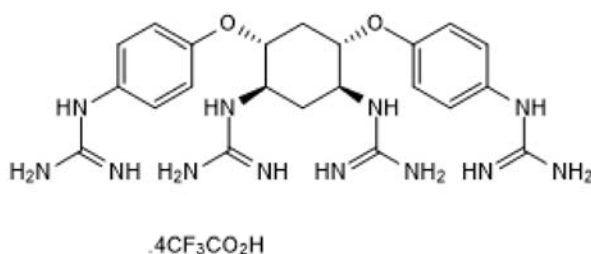
Batch Molecular Weight: 979.68

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 100.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 36.78 | 4.01 | 17.16 |
| Found | 36.44 | 3.83 | 16.95 |

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

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Description:

Potent furin inhibitor (EC₅₀ = 54 nM). Blocks furin-dependent cell surface processing of anthrax protective antigen-83 in vitro.

Physical and Chemical Properties:

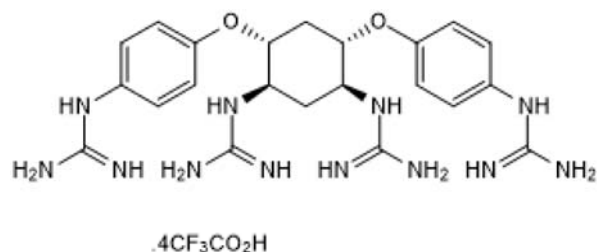
Batch Molecular Formula: C₂₂H₃₂N₁₂O₂.4CF₃CO₂H.1½H₂O

Batch Molecular Weight: 979.68

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



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.

References:

Remacle (2010) Selective and potent furin inhibitors protect cells from anthrax without significant toxicity. *Int.J.Biochem.Cell Biol.* **42** 987. PMID: 20197107.

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