

Product Name: Lys-CoA

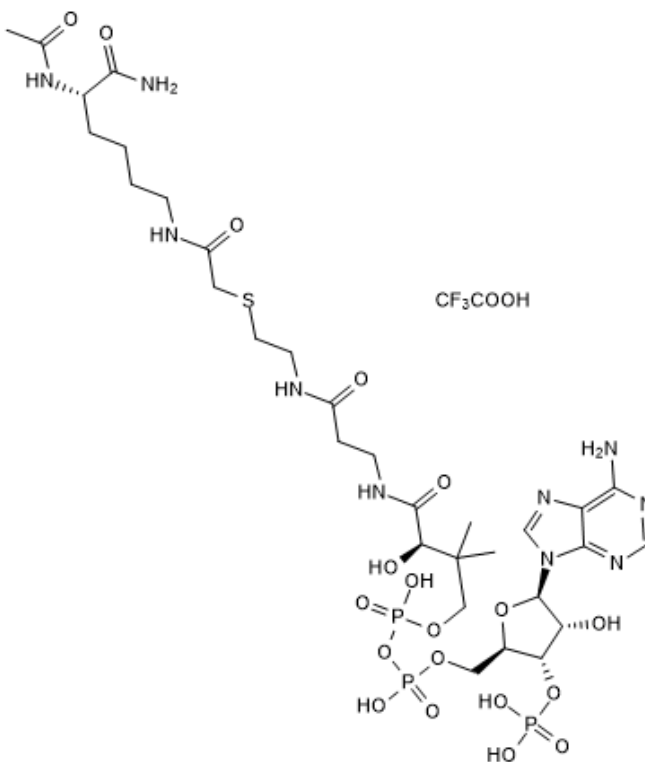
Catalog No.: 5103

Batch No.: 1

IUPAC Name: S-[2-[[[(5S)-5-(Acetylamino)-6-amino-6-oxohexyl]amino]-2-oxoethyl]coenzyme A trifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|--|
| Batch Molecular Formula: | C ₃₁ H ₅₃ N ₁₀ O ₁₉ P ₃ S.C ₂ HF ₃ O ₂ |
| Batch Molecular Weight: | 1108.82 |
| Physical Appearance: | White lyophilised solid |
| Solubility: | water to 6 mM |
| Storage: | Store at -20°C |
| Batch Molecular Structure: | |



2. ANALYTICAL DATA

| | |
|---------------------------|---------------------------|
| HPLC: | Shows 96.3% purity |
| ¹H NMR: | Consistent with structure |
| Mass Spectrum: | Consistent with structure |

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

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Description:

Selective p300 histone acetyltransferase (HAT) inhibitor (IC₅₀ = 50-500 nM). Exhibits approximately 100-fold selectivity for p300 over PCAF (IC₅₀ = 200 μM). Inhibits p300-dependent transcription. Active in vivo.

Physical and Chemical Properties:

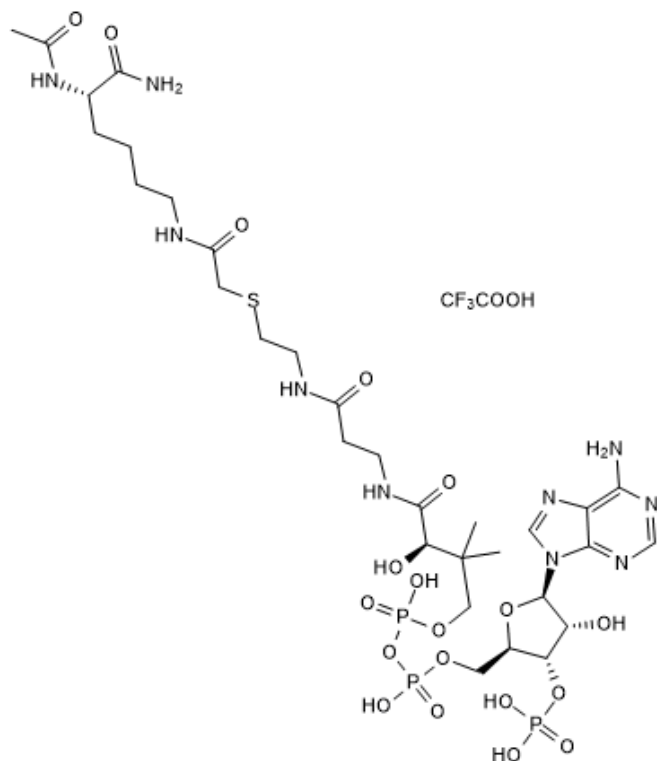
Batch Molecular Formula: C₃₁H₅₃N₁₀O₁₉P₃S.C₂H₃F₃O₂

Batch Molecular Weight: 1108.82

Physical Appearance: White lyophilised solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 6 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Liu et al (2008) The structural basis of protein acetylation by the p300/CBP transcriptional coactivator. *Nature*. **451** 846. PMID: 18273021.

Burns et al (2005) Iso-coenzyme A. *J.Biol.Chem.* **280** 16550. PMID: 15708855.

Cebzat et al (2003) Synthesis and analysis of potential prodrugs of coenzyme A analogues for the inhibition of the histone acetyltransferase p300. *Bioorg.Med.Chem.* **11** 3307. PMID: 12837541.

Lau et al (2000) HATs off: selective synthetic inhibitors of the histone acetyltransferases p300 and PCAF. *Mol.Cell.* **5** 589. PMID: 10882143.

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