

Product Name: FTI 276

Catalog No.: 2406

Batch No.: 1

CAS Number: 1217471-51-6

IUPAC Name: *N*-[4-[2(*R*)-Amino-3-mercaptopropyl]amino-2-phenylbenzoyl]methionine trifluoroacetate salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₇N₃O₃S₂·C₂HF₃O₂

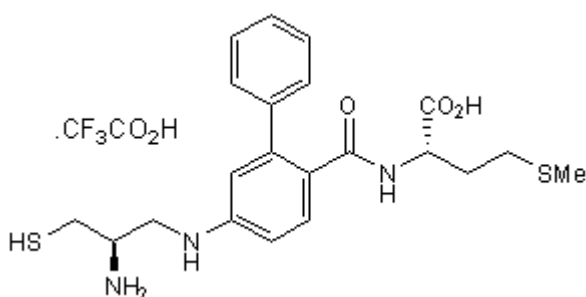
Batch Molecular Weight: 547.61

Physical Appearance: White lyophilised solid

Solubility: water to 10 mM

Storage: Store at -80°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity

Mass Spectrum: Consistent with structure

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

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Description:

Ras CAAX peptidomimetic, a selective inhibitor of farnesyltransferase (FTase) that displays > 100-fold selectivity over geranylgeranyltransferase I (GGTase I) (IC₅₀ values are 0.5 and 50 nM respectively). Blocks growth of human lung carcinoma expressing oncogenic K-Ras in nude mice.

Physical and Chemical Properties:

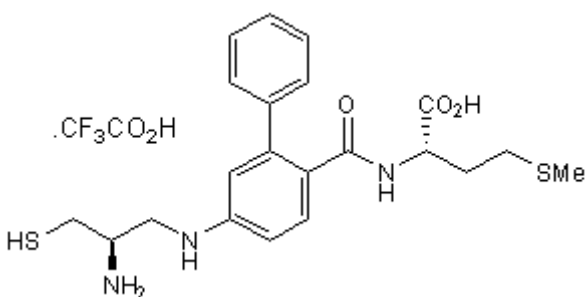
Batch Molecular Formula: C₂₁H₂₇N₃O₃S₂.C₂HF₃O₂

Batch Molecular Weight: 547.61

Physical Appearance: White lyophilised solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -80°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 10 mM

CAUTION - 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:

Sun et al (1995) Ras CAAX peptidomimetic FTI 276 selectively blocks tumour growth in nude mice of a human lung carcinoma with K-Ras mutation and p53 deletion. *Cancer Res.* **55** 4243. PMID: 7671229.

Lerner et al (1995) Ras CAAX peptidomimetic FTI-277 selectively blocks oncogenic Ras signaling inducing cytoplasmic accumulation of inactive Ras-Raf complexes. *J.Biol.Chem.* **270** 26802. PMID: 7592920.

Lerner et al (1995) Disruption of oncogenic K-Ras4B processing and signaling by a potent geranylgeranyltransferase I inhibitor. *J.Biol.Chem.* **10** 26770.

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