

Product Name: GGTI 298

Catalog No.: 2430

Batch No.: 4

CAS Number: 1217457-86-7

IUPAC Name: *N*-[4-[2(*R*)-Amino-3-mercaptopropyl]amino-2-(1-naphthalenyl)benzoyl]-*L*-leucine methyl ester trifluoroacetate salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₃N₃O₃S.CF₃CO₂H

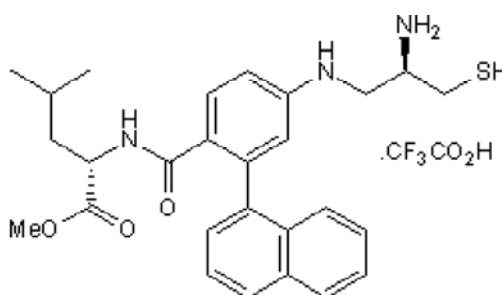
Batch Molecular Weight: 593.66

Physical Appearance: White solid

Solubility: DMSO to 25 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >95% 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:

CAAZ peptidomimetic geranylgeranyltransferase I (GGTase I) inhibitor. Strongly inhibits the processing of geranylgeranylated Rap1A with little effect on processing of farnesylated Ha-Ras (IC₅₀ values are 3 and > 10 μM respectively). Causes G₀-G₁ cell cycle block and apoptosis in A549 cells and inhibits cell invasion and migration in COLO 320CM cells.

Physical and Chemical Properties:

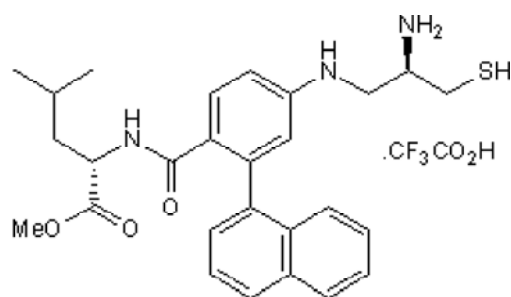
Batch Molecular Formula: C₂₇H₃₃N₃O₃S.CF₃CO₂H

Batch Molecular Weight: 593.66

Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:



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

Solubility & Usage Info:

DMSO to 25 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:

Porcu et al (2010) A yeast-based genomic strategy highlights the cell protein networks altered by FTase inhibitor peptidomimetics. *Mol.Cancer* **9** 197. PMID: 20653956.

Kusama et al (2003) Selective inhibition of cancer cell invasion by a geranylgeranyltransferase inhibitor. *Clin.Exp.Meta.* **20** 561.

Miquel et al (1997) GGTI-298 induces G₀-G₁ block and apoptosis whereas FTI-227 causes G₂-M enrichment in A549 cells. *Cancer Res.* **57** 1846. PMID: 9157972.

McGuire et al (1996) Platelet-derived growth factor receptor tyrosine kinase phosphorylation requires protein geranylgeranylation but not farnesylation. *J.Biol.Chem.* **271** 27402. PMID: 8910319.

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