

Certificate of Analysis

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Product Name: GGTI 297

Catalog No.: 2774

Batch No.: 1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₁N₃O₃S.CF₃CO₂H

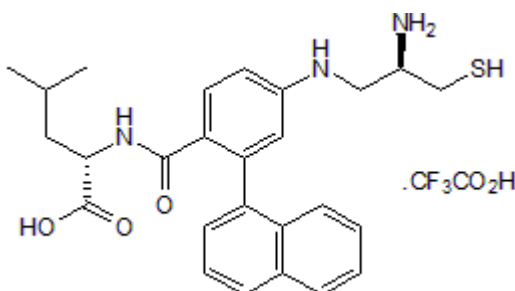
Batch Molecular Weight: 579.63

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% 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:

Geranylgeranyltransferase I (GGTase-I) inhibitor (IC₅₀ values are 135 and 418 nM for GGTase-I and FTase inhibition respectively). Inhibits RhoA prenylation leading to inactivation of RhoA/ROCK and a decrease in basal tone of the internal anal sphincter in vitro.

Physical and Chemical Properties:

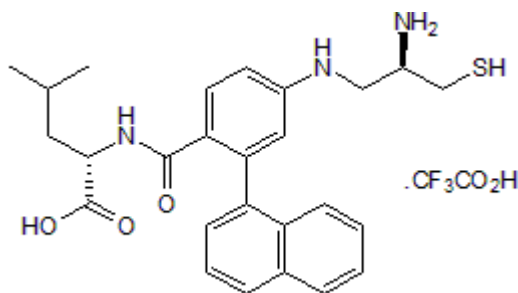
Batch Molecular Formula: C₂₆H₃₁N₃O₃S.CF₃CO₂H

Batch Molecular Weight: 579.63

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 50 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:

Qian (1998) Selective inhibition of type-I geranylgeranyltransferase in vitro and in whole cells by CAAL peptidomimetics. *Bioorg.Med.Chem.* **6** 293. PMID: 9568283.

Patel et al (2007) RhoA prenylation inhibitor produces relaxation of tonic smooth muscle of internal anal sphincter. *J.Pharmacol.Exp.Ther.* **32** 501. PMID: 17322025.

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