

Product Name: T 98475

Catalog No.: 2519

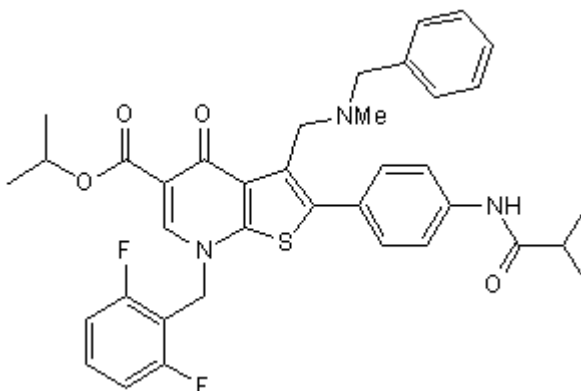
Batch No.: 1

CAS Number: 199119-18-1

IUPAC Name: 7-[(2,6-Difluorophenyl)methyl]-4,7-dihydro-2-[4-[(2-methyl-1-oxopropyl)amino]phenyl]-3-[[methyl(phenylmethyl)amino]methyl]-4-oxo-thieno[2,3-b]pyridine-5-carboxylic acid 1-methylethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₇H₃₇F₂N₃O₄S·1¾H₂O
Batch Molecular Weight: 689.29
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.47	5.92	6.1
Found	64.46	5.47	6.11

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

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Description:

Potent, orally active and non-peptide gonadotropin-releasing hormone (GnRH, LHRH) receptor antagonist (IC₅₀ values are 0.2, 4.0 and 60 nM for human, monkey and rat GnRH receptors respectively). Inhibits LH release in vitro (IC₅₀ = 100 nM) and reduces plasma LH concentration in castrated male cynomolgus monkeys.

Physical and Chemical Properties:

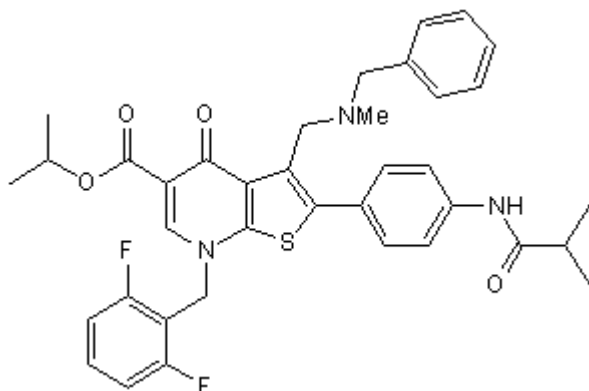
Batch Molecular Formula: C₃₇H₃₇F₂N₃O₄S.1 $\frac{3}{4}$ H₂O

Batch Molecular Weight: 689.29

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Cho et al (1998) Discovery of a novel, potent, and orally active nonpeptide antagonist of the human luteinizing hormone-releasing hormone (LHRH) receptor. *J.Med.Chem.* **41** 4190. PMID: 9784092.

Sasaki et al (2003) Discovery of a thieno[2,3-*d*]pyrimidine-2,4-dione bearing a *p*-methoxyureidophenyl moiety at the 6-position: a highly potent and orally bioavailable non-peptide antagonist for the human luteinizing hormone-releasing hormone receptor. *J.Med.Chem.* **46** 113. PMID: 12502365.

Imada et al (2006) Design, synthesis, and structure-activity relationships of thieno[2,3-*b*]pyridin-4-one derivatives as a novel class of potent, orally active, non-peptide luteinizing hormone-releasing hormone receptor antagonists. *J.Med.Chem.* **49** 3809. PMID: 16789738.

Storage: Desiccate at +4°C

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.

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