

Certificate of Analysis

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Product Name: AG 045572

Catalog No.: 2730

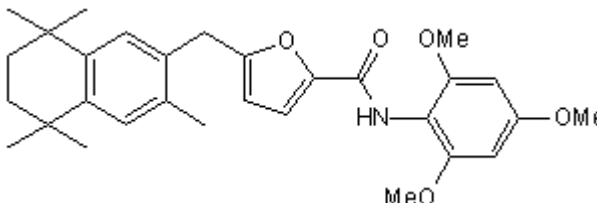
Batch No.: 1

CAS Number: 263847-55-8

IUPAC Name: 5-[5,6,7,8-Tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl-methyl]-N-(2,4,6-trimethoxyphenyl)-2-furancarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₇NO₅
Batch Molecular Weight: 491.62
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Petroleum ether [1:4])
HPLC: Shows 97.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	73.29	7.59	2.85
Found	73.05	7.61	2.36

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

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Description:

Selective gonadotropin-releasing hormone (GnRH) receptor antagonist (K_i values are 2.2, 3.8 and 6.0 nM for mouse, rat and human receptors respectively). Suppresses testosterone and luteinising hormone (LH) levels in vivo.

Physical and Chemical Properties:

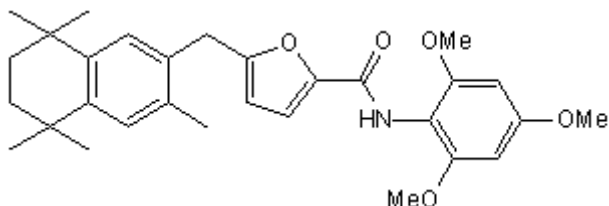
Batch Molecular Formula: $C_{30}H_{37}NO_5$

Batch Molecular Weight: 491.62

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

When purchased as a 1mg unit, 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:

Iatsimirskaia et al (2002) Effect of testosterone suppression on the pharmacokinetics of a potent GnRH receptor antagonist. *Pharm.Res.* **19** 202. PMID: 11883648.

Anderes et al (2003) Biological characterization of a novel, orally active small molecule gonadotropin-releasing hormone (GnRH) antagonist using castrated and intact rats. *J.Pharmacol.Exp.Ther.* **305** 688. PMID: 12606616.

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