Certificate of Analysis

Print Date: Jan 13th 2016

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Product Name: Fexaramine

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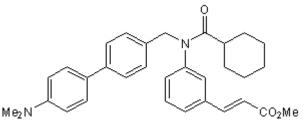
a biotechne brand

Catalog No.: 2563 Batch No.: 2

CAS Number: **IUPAC Name:** 574013-66-4 3-[3-[(Cyclohexylcarbonyl)-[[4'-(dimethylamino)-[1,1'-biphenyl]-4-yl]methyl]amino]phenyl]-2-propenoic acid methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: **Batch Molecular Structure:** C₃₂H₃₆N₂O₃ 496.64 Yellow solid DMSO to 100 mM Desiccate at +4°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: **Microanalysis:**

R_f = 0.18 (Ethyl acetate:Petroleum ether [3:7]) Shows 97.9% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 77.39 7.31 5.64 77.53 Found 7.34 5.7

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

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Description:

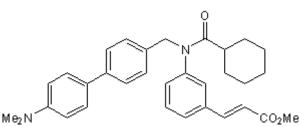
Potent, selective farnesoid X receptor agonist (EC₅₀ = 25 nM). Displays no activity at hRXR α , hPPAR α , hPPAR γ , hPPAR δ , mPXR, hPXR, hLXR α , hTR β , hRAR β , mCAR, mERR γ and hVDR receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₂H₃₆N₂O₃ Batch Molecular Weight: 496.64 Physical Appearance: Yellow solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 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:

Nicolaou et al (2003) Discovery and optimization of non-steroidal FXR agonists from natural product-like libraries. Org.Biomol.Chem. 1 908. PMID: 12929628.

Downes *et al* (2003) A chemical, genetic, and structural analysis of the nuclear bile acid receptor FXR. Mol.Cell **11** 1079. PMID: 12718892.

Pellicciari *et al* (2006) Back door modulation of the farnesoid X receptor: design, synthesis, and biological evaluation of a series of side chain modified chenodeoxycholic acid derivatives. J.Med.Chem. **49** 4208. PMID: 16821780.

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