TOCRIS
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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **LG 100754** **Catalog No.: 3831** **Batch No.: 1**

CAS Number: 180713-37-5

IUPAC Name: (2*E*,4*E*,6*Z*)-3-Methyl-7-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-3-propoxy-3-naphthalenyl)-2,4,6-octatrienoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{26}H_{36}O_3$

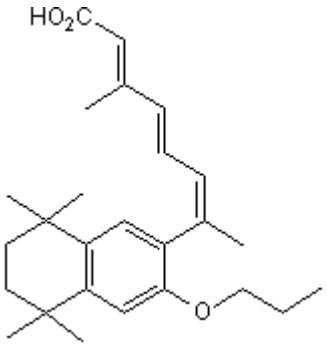
Batch Molecular Weight: 396.56

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (Chloroform:Methanol [9:1])

HPLC: Shows 99.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.75	9.15	0
Found	78.38	9.12	0

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

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Description:

Novel RXR:PPARγ agonist; sensitizes PPARγ by enhancing its ligand binding activity. Also activates RXR:RAR and RXR:PPARα heterodimers in cotransfection assays. Displays selectivity over other permissive heterodimers such as RXR:LXRα and RXR:BAR/FXR. Exhibits antidiabetic properties in vivo.

Physical and Chemical Properties:

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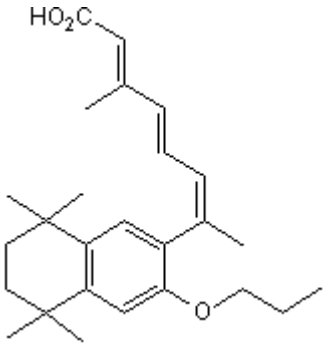
Batch Molecular Weight: 396.56

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Cesario *et al* (2001) The retinoid LG100754 is a novel RXR:PPARγ agonist and decreases glucose levels *in vivo*. Mol.Endocrinol. ***15*** 1360. PMID: 11463859.

Forman (2002) The antidiabetic agent LG100754 sensitizes cells to low concentrations of peroxisome proliferator-activated receptor γ ligands. J.Biol.Chem. ***277*** 12503. PMID: 11877384.

Germain *et al* (2006) International union of pharmacology LXIII. Retinoid X receptors. Pharmacol.Rev. ***58*** 760. PMID: 17132853.

Sato *et al* (2010) The "Phantom Effect" of the rexinoid LG100754: structural and functional insights. PLoS One ***5*** e15119. PMID: 21152046.

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