

Certificate of Analysis

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Product Name: LG 100268

Catalog No.: 5920

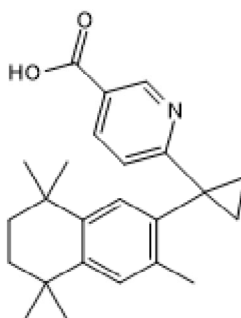
Batch No.: 1

CAS Number: 153559-76-3

IUPAC Name: 6-[1-(5,6,7,8-Tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)cyclopropyl]-3-pyridinecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₉NO₂
Batch Molecular Weight: 363.49
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (1:3 EtOAc:Pet. Ether w. 3 drops AcOH)
HPLC: Shows 97.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	79.3	8.04	3.85
Found	79.34	8.31	3.88

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

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Description:

LG 100268 is a potent and selective retinoid X receptor (RXR) agonist (EC_{50} = 4 nM). Displays >1000-fold selectivity for RXR over RAR. Activates RXR homodimers to induce transcriptional activation. Induces tissue transglutaminase (TGase) activity in HL-60 human promyelocytic leukemia cell line. Also activates RXR/PPAR γ heterodimers.

Physical and Chemical Properties:

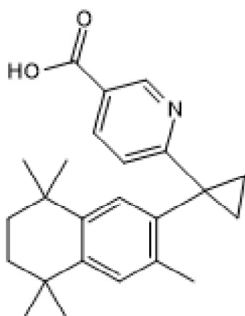
Batch Molecular Formula: C₂₄H₂₉NO₂

Batch Molecular Weight: 363.49

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Lala *et al* (1996) Activation of specific RXR heterodimers by an antagonist of RXR homodimers. *Nature*. **383** 450. PMID: 8837780.

Boehm *et al* (1995) Design and synthesis of potent retinoid X receptor selective ligands that induce apoptosis in leukemia cells. *J.Med.Chem.* **38** 3146. PMID: 7636877.

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