

**Product Name:** LG 100268

**Catalog No.:** 5920

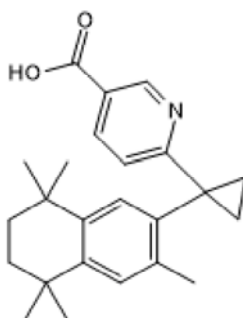
**Batch No.:** 1

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:** C<sub>24</sub>H<sub>29</sub>NO<sub>2</sub>  
**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<sub>f</sub> = 0.4 (1:3 EtOAc:Pet. Ether w. 3 drops AcOH)  
**HPLC:** Shows 98.0% purity  
**<sup>1</sup>H 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

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**Description:**

LG 100268 is a potent and selective retinoid X receptor (RXR) agonist (EC<sub>50</sub> = 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 $\gamma$  heterodimers.

**Physical and Chemical Properties:**

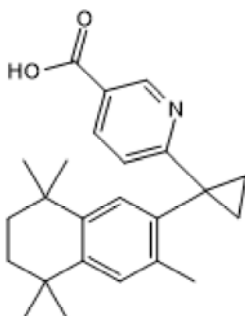
Batch Molecular Formula: C<sub>24</sub>H<sub>29</sub>NO<sub>2</sub>

Batch Molecular Weight: 363.49

Physical Appearance: White solid

**Minimum Purity:**  $\geq$ 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. 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:**

**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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