

**Product Name:** CD 3254

**Catalog No.:** 3302

**Batch No.:** 2

CAS Number: 196961-43-0

IUPAC Name: 3-[4-Hydroxy-3-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)phenyl]-2-propenoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>28</sub>O<sub>3</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

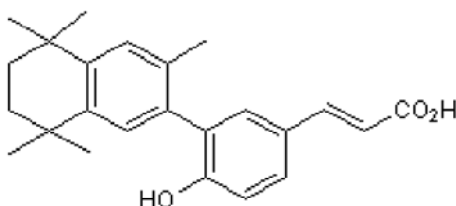
**Batch Molecular Weight:** 377.99

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 96.5% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
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Theoretical	76.26	7.87
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Found	76.34	7.89
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Selective RXR $\alpha$  agonist; exhibits no activity at RAR $\alpha$ , RAR $\beta$  or RAR $\gamma$  receptors.

**Physical and Chemical Properties:**

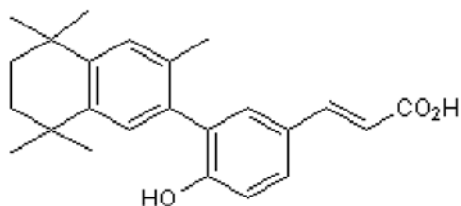
Batch Molecular Formula: C<sub>24</sub>H<sub>28</sub>O<sub>3</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

Batch Molecular Weight: 377.99

Physical Appearance: White solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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:**

**le Maire et al** (2009) Activation of RXR-PPAR heterodimers by organotin environmental endocrine disruptors. *EMBO.Rep.* **10** 367. PMID: 19270714.

**Nahoum et al** (2007) Modulators of the structural dynamics of the retinoid X receptor to reveal receptor function. *Proc.Natl.Acad.Sci.* **104** 17323.

**Pogenberg et al** (2005) Characterization of the interaction between retinoic acid receptor/retinoid X receptor (RAR/RXR) heterodimers and transcriptional coactivators through structural and fluorescence anisotropy studies. *J.Biol.Chem.* **280** 1625. PMID: 15528208.

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