

Certificate of Analysis

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Product Name: AC 55649

Catalog No.: 2436

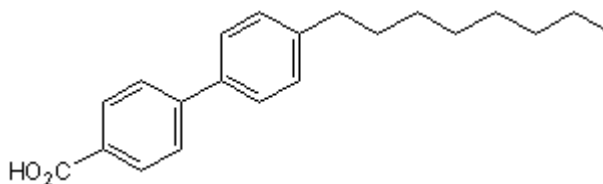
Batch No.: 1

CAS Number: 59662-49-6

IUPAC Name: 4'-Octyl-[1,1'-biphenyl]-4-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₆O₂
Batch Molecular Weight: 310.44
Physical Appearance: Off-white crystalline solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.25	8.44	
Found	81.53	8.5	

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

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Description:

Potent, isoform-selective RAR β 2 receptor agonist (pEC₅₀ values are 6.9, 5.7 and 5.6 at RAR β 2, RAR β 1 and RAR α respectively) that displays 100-fold selectivity versus other retinoid receptors. Inhibits proliferation of the breast cancer cell line MCF-7.

Physical and Chemical Properties:

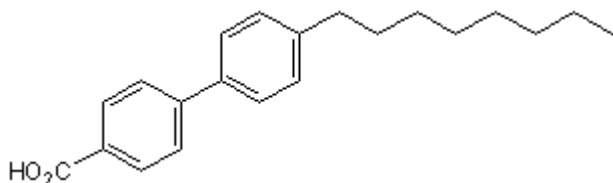
Batch Molecular Formula: C₂₁H₂₆O₂

Batch Molecular Weight: 310.44

Physical Appearance: Off-white crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 25 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:

Lund et al (2005) Discovery of a potent, orally available, and isoform-selective retinoic acid β 2 receptor agonist. *J.Med.Chem.* **48** 7517. PMID: 16302793.

Lund et al (2009) Design, synthesis, and structure-activity analysis of isoform selective retinoic acid receptor ligands. *J.Med.Chem.* **52** 1540. PMID: 19239230.

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