

Certificate of Analysis

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Product Name: Cyclofenil

CAS Number: 2624-43-3

IUPAC Name: 4,4'-(Cyclohexyldenemethylene)bisphenol 1,1'-diacetate

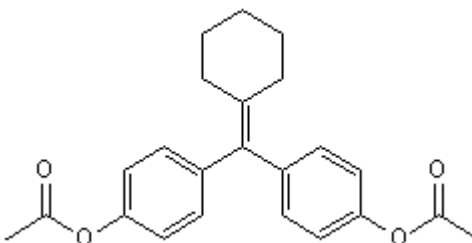
Catalog No.: 3999

EC Number: 220-089-1

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₄O₄
Batch Molecular Weight: 364.43
Physical Appearance: White crystalline solid
Solubility: DMSO to 10 mM
ethanol to 5 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.8	6.64	
Found	75.38	6.6	

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

Product Name: Cyclofenil

CAS Number: 2624-43-3

IUPAC Name: 4,4'-(Cyclohexylidene)methylene)bisphenol 1,1'-diacetate

Catalog No.: 3999

EC Number: 220-089-1

Batch No.: 1

Description:

Non-steroidal selective estrogen receptor modulator (SERM). Displays higher affinity for estrogen receptor β (ER β) than for ER α .

Physical and Chemical Properties:

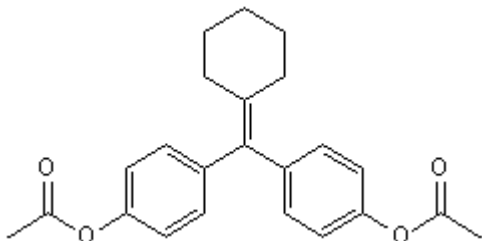
Batch Molecular Formula: C₂₃H₂₄O₄

Batch Molecular Weight: 364.43

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Seo et al (2006) Fluorine-substituted cyclofenil derivatives as estrogen receptor ligands: synthesis and structure-affinity relationship study of potential PET agents for imaging estrogen receptors in breast cancer. *J.Med.Chem.* **49** 2496. PMID: 16610793.

Kieser et al (2010) Characterization of the pharmacore properties of novel selective estrogen receptor downregulators (SERDs). *J.Med.Chem.* **53** 3320. PMID: 20334372.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 mM

ethanol to 5 mM with gentle warming

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.

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