

Product Name: Cytosporone B

Catalog No.: 5459

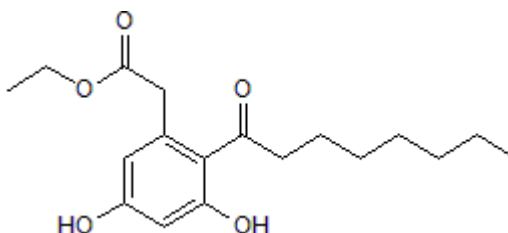
Batch No.: 1

CAS Number: 321661-62-5

IUPAC Name: Ethyl 3,5-dihydroxy-2-(1-oxooctyl)-benzeneacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₆O₅
Batch Molecular Weight: 322.4
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:Methanol [19:1])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.06	8.13	0
Found	67.12	8.32	0.1

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

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Description:

Naturally occurring Nur77 (NR4A1) agonist ($K_d = 8.52 \times 10^{-7}$ M). Induces apoptosis in gastric cancer cells in vitro. Increases blood glucose levels in fasting C57 mice and suppresses xenograft tumor growth. Also exhibits a potent antifibrotic effect in bleomycin-induced skin fibrosis in vivo.

Physical and Chemical Properties:

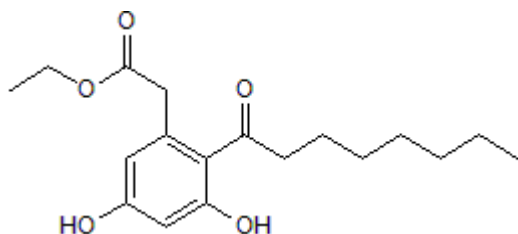
Batch Molecular Formula: C₁₈H₂₆O₅

Batch Molecular Weight: 322.4

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Zhan *et al* (2008) Cytosporone B is an agonist for nuclear orphan receptor Nur77. *Nat.Chem.Biol.* **4** 548. PMID: 18690216.

Palumbo-Zerr *et al* (2015) Orphan nuclear receptor NR4A1 regulates transforming growth factor- β signaling and fibrosis. *Nat.Med.* **21** 150. PMID: 25581517.

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.

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