

Product Name: Muristerone A

Catalog No.: 3816

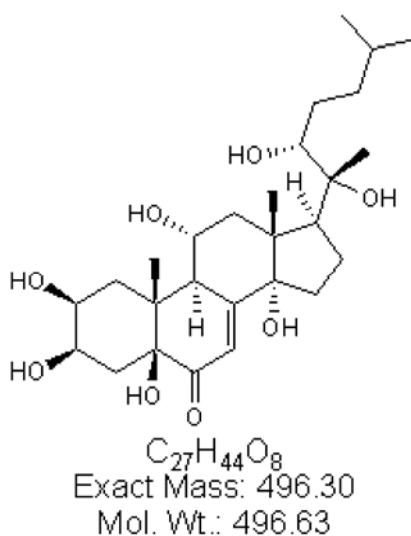
Batch No.: 1

CAS Number: 38778-30-2

IUPAC Name: (2β,3β,5β,11α,22R)-2,3,5,11,14,20,22-Heptahydroxycholest-7-en-6-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₄₄O₈
Batch Molecular Weight: 496.63
Physical Appearance: White solid
Solubility: Soluble in DMSO
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
Mass Spectrum: Consistent with structure

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

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Description:

Ecdysone analog that acts as an inducer of ecdysone-inducible gene expression systems in mammalian cells and transgenic animals. Stimulates Bcl-XL mRNA transcription and inhibits TRAIL- and hFasL-induced apoptosis in RKO cells.

Physical and Chemical Properties:

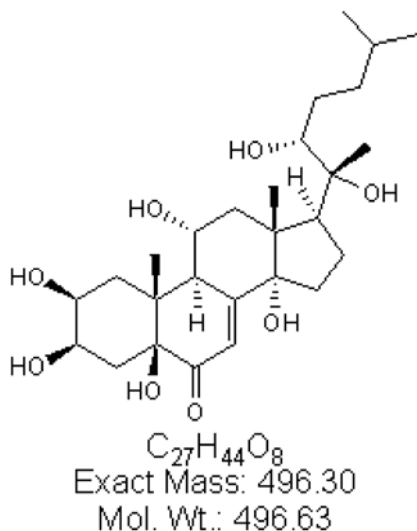
Batch Molecular Formula: C₂₇H₄₄O₈

Batch Molecular Weight: 496.63

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in DMSO

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Bosser and Zornig (2005) Agonists of an ecdysone-inducible mammalian expression system inhibit Fas-ligand- and TRAIL-induced apoptosis in the human colon carcinoma cell line RKO. *Cell Death Diff.* **13** 189.

Patrick et al (2001) Muristerone A-induced nerve growth factor release from genetically engineered human dermal fibroblasts for peripheral nerve tissue engineering. *Tissue Eng.* **7** 303. PMID: 11429150.

No et al (1996) Ecdysone-inducible gene expression in mammalian cells and transgenic mice. *Proc.Natl.Acad.Sci.USA* **93** 3346.

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