

Product Name: Latrunculin A

Catalog No.: 3973

Batch No.: 11

CAS Number: 76343-93-6

IUPAC Name: 4-[(1R,4Z,8E,10Z,12S,15R, 17R)-17-Hydroxy-5,12-dimethyl-3-oxo-2,16-dioxabicyclo[13.3.1]nonadeca-4,8,10-trien-17-yl]-2-thiazolidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

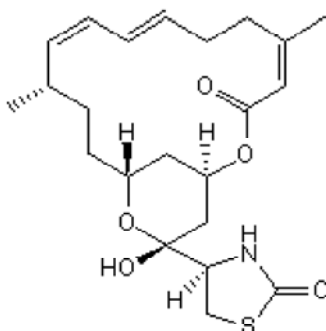
Batch Molecular Formula: C₂₂H₃₁NO₅S

Batch Molecular Weight: 421.55

Physical Appearance: White solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

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

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Description:

Latrunculin A is a reversible inhibitor of actin assembly; blocks actin adenine nucleotide exchange. Complexes with actin in vitro and interacts with actin monomers only, unlike cytochalasins. Prevents actin repolymerization into filaments and disrupts the actin cytoskeleton. This product is typically reconstituted in DMSO as a primary solvent.

Physical and Chemical Properties:

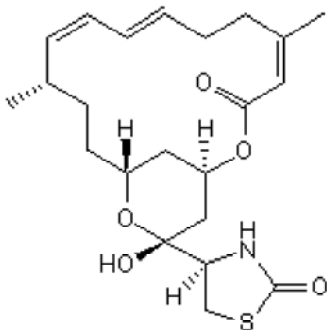
Batch Molecular Formula: C₂₂H₃₁NO₅S

Batch Molecular Weight: 421.55

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Morton et al (2000) Latrunculin alters the actin-monomer subunit interface to prevent polymerization. *Nat.Cell Biol.* **2** 376. PMID: 10854330.

Yarmola et al (2000) Actin-latrunculin A structure and function. *J.Biol.Chem.* **275** 28120. PMID: 10859320.

Blasberger et al (1989) On the chemistry of latrunculins A and B. *Liebigs.Ann.Chem.* **1989** 1171.

Storage: Store at -20°C. This product is packaged under an inert atmosphere.

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

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.

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