biotechne[®] TOCRIS

Certificate of Analysis

www.tocris.com

Batch No.: 7

Catalog No.: 3973

Product Name: Latrunculin A

CAS Number: 76343-93-6

IUPAC Name:

Storage:

10343-93-0 4 [(4 D 4 7 9 5 10 7 12 9 15 D 17 D) 17 Hudrows 5 1

4-[(1*R*,4*Z*,8*E*,10*Z*,12*S*,15*R*, 17*R*)-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: Batch Molecular Weight:

Batch Molecular Structure:

Physical Appearance:

 $C_{22}H_{31}NO_5S$ 421.55 White lyophilised solid Store at -20°C



2. ANALYTICAL DATA HPLC:

Shows 96.3% purity

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

biotechne[®] TOCRIS

7

www.tocris.com

Product Name: Latrunculin A

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

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 Iyophilised solid

Minimum Purity: ≥95%

Batch Molecular Structure:



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

Catalog No.: 3973

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 in lyophilized form. It may appear as a solid, gel or film and 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

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.

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956