

Certificate of Analysis

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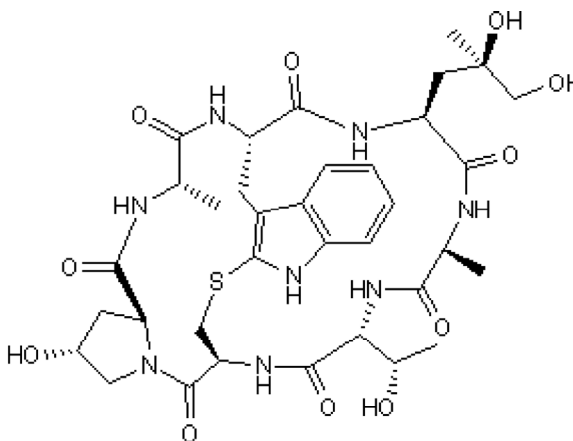
Product Name: Phalloidin
CAS Number: 17466-45-4

Catalog No.: 4535

Batch No.: 7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₅H₄₈N₈O₁₁S
Batch Molecular Weight: 788.87
Physical Appearance: solid
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows >98% purity
Mass Spectrum: Consistent with structure

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

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Product Name: Phalloidin

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Description:

Phalloidin is a promotes actin polymerization. Decreases dissociation rate constant for actin subunits from filament ends; lowers critical concentration for polymerization.

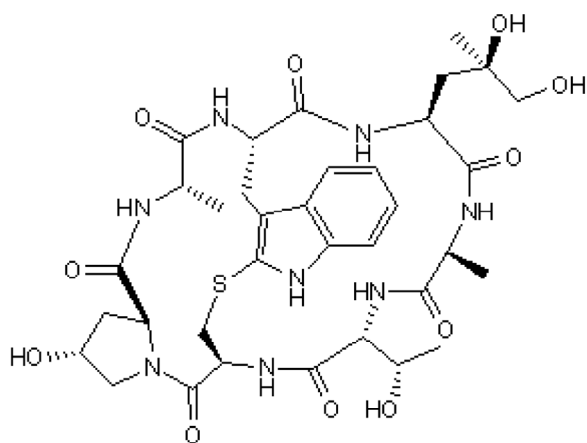
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Physical Appearance: solid

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Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

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).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Diensthuber et al (2011) Phalloidin perturbs the interaction of human non-muscle myosin isoforms 2A and 2C1 with F-actin. *FEBS Lett.* **585** 767. PMID: 21295570.

Cooper (1987) Effects of cytochalasin and phalloidin on actin. *J. Cell Biol.* **105** 1473. PMID: 3312229.

Coluccio and Tilney (1984) Phalloidin enhances actin assembly by preventing monomer dissociation. *J. Cell Biol.* **99** 529. PMID: 6746738.

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