

# Certificate of Analysis

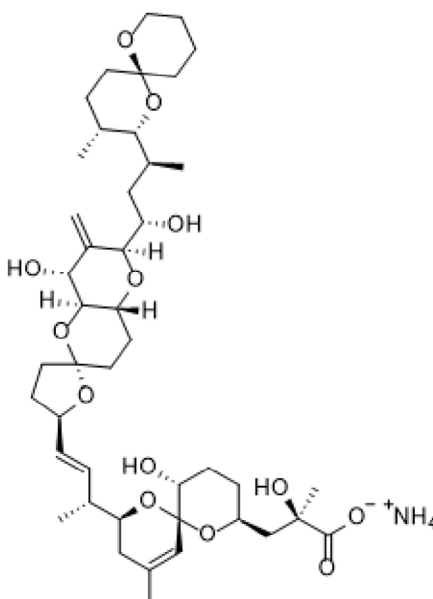
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**Product Name:** Okadaic acid ammonium salt  
**CAS Number:** 175522-42-6  
**IUPAC Name:** 9,10-Deepithio-9,10-didehydroacanthifolicin ammonium salt

**Catalog No.:** 9012 **Batch No.:** 1

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>44</sub>H<sub>67</sub>O<sub>13</sub>.NH<sub>4</sub>  
**Batch Molecular Weight:** 822.04  
**Physical Appearance:** lyophilised film  
**Solubility:** Soluble in DMSO  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows >98.0% purity

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

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**Catalog No.:** 9012

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CAS Number: 175522-42-6

IUPAC Name: 9,10-Deepithio-9,10-didehydroacanthifolicin ammonium salt

**Description:**

Okadaic acid ammonium salt is a potent inhibitor of protein phosphatase 1 ( $IC_{50}$  = 3 nM) and protein phosphatase 2A ( $IC_{50}$  = 0.2-1 nM). Displays > 100,000,000-fold selectivity over PP2B and PP2C. Tumor promoter. Shown to activate atypical protein kinase C in adipocytes.

**Physical and Chemical Properties:**

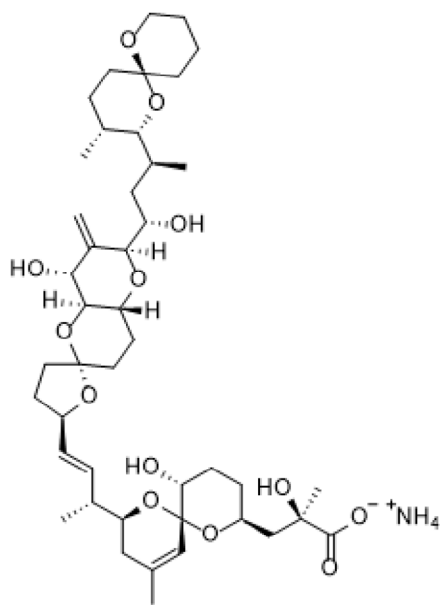
Batch Molecular Formula:  $C_{44}H_{67}O_{13}.NH_4$

Batch Molecular Weight: 822.04

Physical Appearance: lyophilised film

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

Soluble in DMSO

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:**

**Deng *et al*** (2023) Molecular dynamic simulation on the synergistic corrosion inhibition effect and mechanism of quinoline quaternary ammonium salt and L-methionine. *Chem.Technol.Fuels.Oils* **59** 858.

**McCluskey *et al*** (2002) Serine-threonine protein phosphatase inhibitors: development of therapeutic strategies. *J.Med.Chem* **45** 1151. PMID: 11881984.

**Nuydens *et al*** (1998) Okadaic acid-induced apoptosis in neuronal cells: evidence for an abortive mitotic attempt. *J.Neurochem.* **70** 1124. PMID: 9489733.

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