

Print Date: Jul 8th 2014

Certificate of Analysis

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Product Name: Cyclosporin A

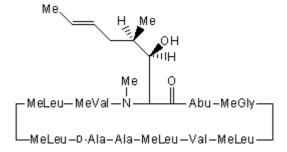
CAS Number:

Catalog No.: 1101 Batch No.: 5

1. PHYSICAL AND CHEMICAL PROPERTIES

59865-13-3

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: Batch Molecular Structure: 

2. ANALYTICAL DATA

HPLC: ¹H NMR: Microanalysis: Shows 99.7% purity Consistent with structure

	Carbon H	ydrogen	Nitrogen
Theoretical	61.23	9.32	12.67
Found	61.23	9.15	12.85

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

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CAS Number: 59865-13-3

Description:

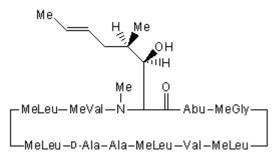
Immunosuppressant; inhibits phosphatase activity of calcineurin ($IC_{50} = 5$ nM). Also inhibits formation and opening of the mitochondrial permeability transition pore (MPTP).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{62}H_{111}N_{11}O_{12}$.³/₄H₂O Batch Molecular Weight: 1216.14 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Catalog No.: 1101 Batch No.: 5

Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM ethanol to 50 mM

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:

Fruman *et al* (1992) Calcineurin phosphatase activity in T lymphocytes is inhibited by FK 506 and cyclosporin A. Proc.Natl.Acad.Sci.U.S.A. **89** 3686. PMID: 1373887.

Brookemeier and Pfeiffer (1995) Inhibition of the mitochondrial permeability transition pore by cyclosporin A during long time frame experiments: relationship between pore opening and the activity of mitochondrial phospholipases. Biochemistry **34** 16440. PMID: 8845372.

Nakata *et al* (1998) Evidence that cyclosporin A and dexamethasone inhibit allergic airway inflammation via suppression of interleukin-5 synthesis by T cells. Br.J.Pharmacol. **124** 1425. PMID: 9723954.

Yan *et al* (2009) Cyclosporin-A potently induces highly cardiogenic progenitors from embryonic stem cells. BiochemsBiophys.Res.Commun. **379** 115. PMID: 19094963.

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