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Certificate of Analysis

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Print Date: Nov 3rd 2020

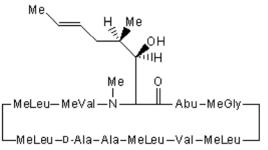
Product Name: Cyclosporin A CAS Number: 59865-13-3

Catalog No.: 1101 Batch No.: 6

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Storage: Batch Molecular Structure: $C_{62}H_{111}N_{11}O_{12}.\frac{1}{2}H_2O$ 1211.64 White solid DMSO to 100 mM ethanol to 50 mM Store at -20°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum:

Microanalysis:

Shows 99.7% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen Theoretical 61.46 9.32 12.72 Found 61.2 9.35 12.67

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

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Batch No.: 6

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Product Name: Cyclosporin A

CAS Number: 59865-13-3

Description:

Storage: Store 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).

Catalog No.: 1101

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.

Prostaglandin E₂ (Cat. No. 2296). Physical and Chemical Properties:

Batch Molecular Formula: $C_{62}H_{111}N_{11}O_{12}$.¹/₂ H_2O Batch Molecular Weight: 1211.64 Physical Appearance: White solid

Immunosuppressant; simultaneously binds calcineurin and

cyclophilin and inhibits phosphatase activity of calcineurin (IC₅₀ =

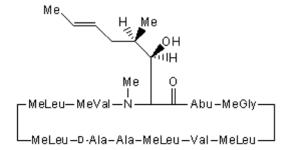
5 nM). Additionally inhibits formation and opening of the

mitochondrial permeability transition pore (MPTP). Also inhibits coronavirus replication in vitro. Enhances lentirival transduction

of bone marrow-derived CD34+ cells and is additive with

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Petrillo *et al* (2019) Assessing the impact of cyclosporin A on lentiviral transduction and preservation of human hematopoietic stem cells in clinically relevant *ex vivo* gene therapy settings. Hum.Gene.Ther. **30** 1133. PMID: 31037976 .

Carbajo-Lozoya *et al* (2014) Human coronavirus NL63 replication is cyclophilin A-dependent and inhibited by non-immunosuppressive cyclosporine A-derivatives including Alisporivir. Virus Res. **184** 44. PMID: 24566223.

de Wilde et al (2013) MERS-coronavirus replication induces severe *in vitro* cytopathology and is strongly inhibited by cyclosporin A or interferon- α treatment. J.Gen.Virol. **94** 1749. PMID: 23620378.

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