OCR I biotechr

Certificate of Analysis

www.tocris.com

Print Date: Oct 19th 2021

Product Name: A23187, free acid

Catalog No.: 1234 Batch No.: 10

CAS Number: **IUPAC Name:** 52665-69-7

EC Number: 258-084-1

5-(Methylamino)-2-[[2R,3R,6S,8S,9R,11R)-3,9,11-trimethyl-8-[(1S)-1-methyl-2-oxo-2-(1H-pyrrol-2-yl)-ethyl] -1,7-dioxaspiro[5.5]undec-2-yl]methyl]-4-benzoxazolecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

C₂₉H₃₇N₃O₆. 523.63 White solid DMSO to 5 mM Store at +4°C

> Me Me Н n Ō Me М HO₂C

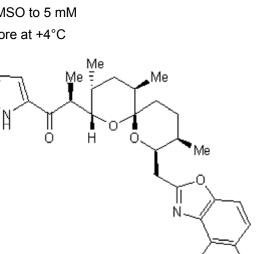
2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: **Microanalysis:**

Shows 98.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 66.52 7.12 8.02 Found 66.46 7.23 8.08

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



NHMe



www.tocris.com

A23187, free acid Product Name:

CAS Number: 52665-69-7 Catalog No.: 1234

EC Number: 258-084-1

Batch No.: 10

IUPAC Name:

5-(Methylamino)-2-[[2R,3R,6S,8S,9R,11R)-3,9,11-trimethyl-8-[(1S)-1-methyl-2-oxo-2-(1H-pyrrol-2-yl)-ethyl] -1,7-dioxaspiro[5.5]undec-2-yl]methyl]-4-benzoxazolecarboxylic acid

Description:

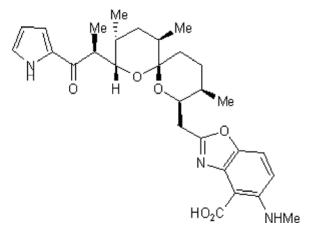
A23187, free acid is a calcium ionophore that induces Ca2+dependent cell death by increasing intracellular calcium concentration. Promotes intracelllular ROS generation and platelet particle formation (fragmentation) in vitro and in vivo. Can be used to induce autophagy in mammalian cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₉H₃₇N₃O₆. Batch Molecular Weight: 523.63 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 5 mM Solutions in DMSO may appear hazy or as a fine suspension

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:

Sakanashi et al (2009) Zn²⁺, derived from cell preparation, partly attenuates Ca²⁺-dependent cell death induced by A23187, calcium ionophore, in rat thymocytes. Toxicol.In Vitro 23 338. PMID: 19124067.

Ding et al (2007) Differential effects of endoplasmic reticulum stress-induced autophagy on cell survival. J.Biol.Chem. 282 4702. PMID: 17135238.

Kajitani et al (2007) Mechanism of A23187-induced apoptosis in HL-60 cells: dependency on mitochondrial permeability transition but not NADPH oxidase. Biosci.Biotechnol.Bichem. 71 2701. PMID: 7535265.

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