TOCRIS a biotechne brand

Print Date: Mar 12th 2022

Certificate of Analysis

www.tocris.com

Batch No.: 7

Catalog No.: 4500

Product Name: Cercosporamide

CAS Number: 131436-22-1

IUPAC Name: (9aS)-8-Acetyl-9,9a-dihydro-1,3,7-trihydroxy-9a-methyl-9-oxo-4-dibenzofurancaboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

C₁₆H₁₃NO₇ 331.28 Yellow solid DMSO to 10 mM Store at -20°C

OH NH_2

2. ANALYTICAL DATA HPLC: Mass Spectrum:

Shows 99.1% purity Consistent with structure

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

TOCRIS a biotechne brand

Print Date: Mar 12th 2022

Batch No.: 7

www.tocris.com

Product Name: Cercosporamide

CAS Number: 131436-22-1

IUPAC Name:

101400 22 1

(9aS)-8-Acetyl-9,9a-dihydro-1,3,7-trihydroxy-9a-methyl-9-oxo-4-dibenzofurancaboxamide

Description:

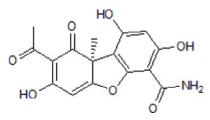
Cercosporamide is a potent inhibitor of MAP-kinase interacting kinase-2 (Mnk2) and JAK3 (IC₅₀ values are 11, 31 and 116 nM for Mnk2, JAK3 and Mnk1 respectively). Blocks eIF4E phosphorylation; exhibits antiproliferative and proapoptotic activity in cancer cells in vitro. Also inhibits Pkc1. Orally bioavailable.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₁₃NO₇ Batch Molecular Weight: 331.28 Physical Appearance: Yellow solid

Minimum Purity: ≥96%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM

Solutions in DMSO are unstable and should be freshly prepared. When stored at -20°C, DMSO solution should be stable for 3 months. This product is supplied as a lyophilized solid and may 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.

Catalog No.: 4500

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:

Hou et al (2012) Targeting Mnks for cancer therapy. Oncotarget 3 118. PMID: 22392765.

Konicek et al (2011) Therapeutic inhibition of MAP kinase interacting kinase blocks eukaryotic initiation factor 4E phosphorylation and suppresses outgrowth of experimental lung metastases. Cancer Res. **71** 1849. PMID: 21233335.

Sussman et al (2004) Discovery of cercosporamide, a known antifungal natural product, as a selective Pkc1 kinase inhibitor through high-throughput screening. Eukaryot.Cell 3 932. PMID: 15302826.

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

bio-techne.comNorth AmericaChinaEurope Middle East AfricaRest of Worldinfo@bio-techne.comTel: (800) 343 7475info.cn@bio-techne.comTel: +44 (0) 1235 529449www.tocris.com/distributorstechsupport@bio-techne.comTel: +86 (21) 52380373Tel: +44 (0) 1235 529449tel: +1612 379 2956