Certificate of Analysis

Print Date: Jun 28th 2019

Product Name: 2'-MeCCPA

OCR1

biotechne

Solubility:

Storage:

CAS Number: 205171-12-6 IUPAC Name: 2-Chloro-N-cyclopentyl-2'-methyladenosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:

 $C_{16}H_{22}CIN_5O_4.1/_4H_2O$ 388.33 White solid DMSO to 25 mM Store at +4°C





2. ANALYTICAL DATA

TLC: **Melting Point:** HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

R_f = 0.35 (Chloroform:Methanol [95:5]) Between 129 - 133°C Shows 98.7% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 49.49 5.84 18.03 Found 49.43 5.81 17.9

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

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Catalog No.: 2281 Batch No.: 1

TOCRIS a biotechne brand

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www.tocris.com

Product Name: 2'-MeCCPA

CAS Number: 205171-12-6 IUPAC Name: 2-Chloro-*N*-cyclopentyl-2'-methyladenosine

Description:

Potent and highly selective agonist at A_1 adenosine receptors (K_i values are 3.3, 9580, 37600 and 1150 nM for human recombinant A_1 , A_{2A} , A_{2B} and A_3 receptors respectively). Acts as a full agonist; inhibits forskolin-stimulated adenylyl cyclase activity in rat cortical membranes with an IC₅₀ value of 13.1 nM.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₂₂ClN₅O₄.¹/₄H₂O Batch Molecular Weight: 388.33 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Cappellacci *et al* (2005) Synthesis, biological evaluation, and molecular modeling of ribose-modified adenosine analogues as adenosine receptor agonists. J.Med.Chem. **48** 1550. PMID: 15743197.

Franchetti et al (1998) 2'-C-Methyl analogues of selective adenosine receptor agonists: synthesis and binding studies. J.Med.Chem. 41 1708. PMID: 9572897.

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Batch No.: 1

Storage: Store at +4°C

Solubility & Usage Info: DMSO to 25 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.: 2281

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.