



Certificate of Analysis

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Product Name: ACPT-I Catalog No.: 1111 Batch No.: 6

CAS Number: 194918-76-8

IUPAC Name: (1S,3R,4S)-1-Aminocyclopentane-1,3,4-tricarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

C₈H₁₁NO₆ **Batch Molecular Formula:** 217.18 **Batch Molecular Weight:** White solid **Physical Appearance:**

Solubility: water to 10 mM

1.1eq. NaOH to 50 mM

Storage: Desiccate at -20°C

2. ANALYTICAL DATA

Batch Molecular Structure:

R_f = 0.15 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33]) TLC:

¹H NMR: Consistent with structure Consistent with structure **Mass Spectrum:**

Microanalysis: Carbon Hydrogen Nitrogen

> Theoretical 44.24 5.11 6.45 Found 44 5.15 6.45



Print Date: Jan 8th 2016



Product Information

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Description:

Agonist for group III mGlu receptors (EC50 values are 7.2 and 8.2 µM for mGlu4a and mGlu8 respectively). Anticonvulsant in

Physical and Chemical Properties:

Batch Molecular Formula: C₈H₁₁NO₆ Batch Molecular Weight: 217.18 Physical Appearance: White solid

Batch Molecular Structure:

Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 10 mM 1.1eg. NaOH 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:

Acher et al (1997) Synthesis and pharmacological characterization of aminocyclopentanetricarboxylic acids: new tools to discriminate between metabotropic glutamate receptor subtypes. J.Med.Chem. 40 3119. PMID: 9301676.

De Colle et al (2000) Pharmacological characterization of the rat metabotropic glutamate receptor 8a revealed strong similarities and slight differences with the type 4a receptor. Eur.J.Pharmacol. 394 17. PMID: 10771029.

Chapman et al (2001) Anticonvulsant activity of a mGlu_{4g} receptor selective agonist, (1S,3R,4S)-1-aminocyclopentane-1,2,4tricarboxylic acid. Eur.J.Pharmacol. 424 107. PMID: 11476756.

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