

Certificate of Analysis

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Product Name: (±)-ACPT-III

Catalog No.: 1113

Batch No.: 1

IUPAC Name: (3*RS*,4*RS*)-1-Aminocyclopentane-1,3,4-tricarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₁NO₆·¼H₂O·¼H₂O

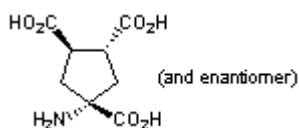
Batch Molecular Weight: 221.6838

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 233 - 235°C(Dec)

HPLC: Shows >99.7% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen		
Theoretical	43.34	5.23	6.32	0	0
Found	43.03	5.38	6.2	0	0

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

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Description:

A selective group III metabotropic receptor agonist displaying EC₅₀ values of 40 μM at mGlu_{4a} receptors and > 1 mM at mGlu_{1a} and mGlu₂ receptors.

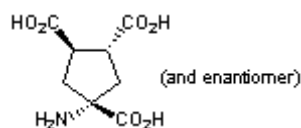
Physical and Chemical Properties:

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Physical Appearance: White solid

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Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 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.

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