Certificate of Analysis

Product Name: **AIDA** **Catalog No.: 0904** **Batch No.: 25**

CAS Number: 168560-79-0

IUPAC Name: (*RS*)-1-Aminoindan-1,5-dicarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{11}H_{11}NO_4$

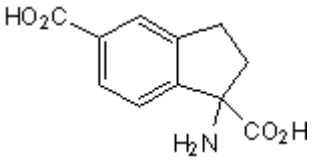
Batch Molecular Weight: 221.21

Physical Appearance: White solid

Solubility: 1.1eq. NaOH to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.73	5.01	6.33
Found	59.43	5.19	6.55

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Description:

A relatively potent and selective antagonist of group I metabotropic glutamate receptors ($mGlu_{1a}$), having no effect on group II ($mGlu_2$) or group III ($mGlu_4$) receptors expressed individually in baby hamster kidney cells. Has no effect on ionotropic glutamate receptors. Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

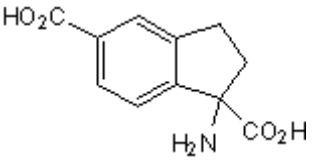
Batch Molecular Formula: $C_{11}H_{11}NO_4$

Batch Molecular Weight: 221.21

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1.1eq. NaOH 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:

Pellicciari *et al* (1995) 1-Aminoindan-1,5-dicarboxylic acid: a novel antagonist at phospholipase C-linked metabotropic glutamate receptors. J.Med.Chem. ***38*** 3717. PMID: 7562903.

Moroni *et al* (1997) Pharmacological characterization of 1-aminoindan-1,5-dicarboxylic acid, a potent mGluR1 antagonist. J.Pharmacol.Exp.Ther. ***281*** 721. PMID: 9152378.

Nielsen *et al* (1997) Class I mGlu receptor antagonist 1-aminoindan-1,5-dicarboxylic acid blocks contextual but not cue conditioning in rats. Eur.J.Pharmacol. ***326*** 105. PMID: 9196260.

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