

Certificate of Analysis

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Product Name: *p*-Chlorophenylalanine

Catalog No.: 0938

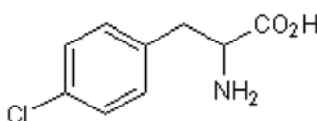
Batch No.: 5

CAS Number: 7424-00-2

EC Number: 231-051-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₀ClNO₂.
Batch Molecular Weight: 199.64
Physical Appearance: White solid
Solubility: 1eq. NaOH to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 54.15 | 5.05 | 7.02 |
| Found | 54.21 | 5.11 | 6.99 |

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

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Product Name: *p*-Chlorophenylalanine

Catalog No.: 0938

Batch No.: 5

CAS Number: 7424-00-2

EC Number: 231-051-9

Description:

p-Chlorophenylalanine binds irreversibly to tryptophan hydroxylase to cause depletion of serotonin in the brain.

Physical and Chemical Properties:

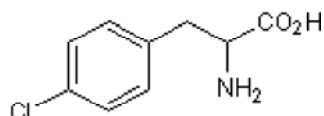
Batch Molecular Formula: C₉H₁₀ClNO₂.

Batch Molecular Weight: 199.64

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 10 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:

Datla and Curzon (1996) Effect of *p*-chlorophenylalanine at moderate dosage on 5-HT and 5-HIAA concentrations in brain regions of control and *p*-chloroamphetamine treated rats. *Neuropharmacology* **35** 315. PMID: 8783206.

Koyuncuoglu et al (1975) The effects of DL-*p*-chlorophenylalanine and DL- α -methyl-*p*-tyrosine on the brain catecholamine, serotonin and free amino acid contents in rat. *Psychopharmacologia* **45** 163. PMID: 129787.

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