

Certificate of Analysis

www.tocris.com

Product Name: *p*-Chlorophenylalanine

Catalog No.: 0938

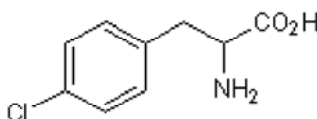
Batch No.: 4

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% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.15	5.05	7.02
Found	54.22	5.01	7.05

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: *p*-Chlorophenylalanine

Catalog No.: 0938

Batch No.: 4

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:

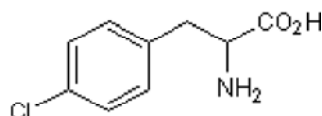
Batch Molecular Formula: C₉H₁₀ClNO₂

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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956