

Certificate of Analysis

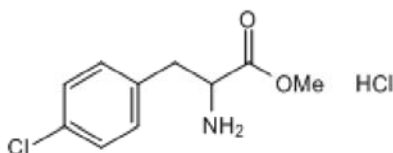
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Product Name: pCPA methyl ester hydrochloride
CAS Number: 14173-40-1
IUPAC Name: 4-Chloro-DL-Phenylalanine methyl ester hydrochloride

Catalog No.: 5871 **Batch No.:** 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₂ClNO₂.HCl
Batch Molecular Weight: 250.12
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.02	5.24	5.6
Found	47.91	5.2	5.54

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

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Catalog No.: 5871

Batch No.: 2

CAS Number: 14173-40-1

IUPAC Name: 4-Chloro-DL-Phenylalanine methyl ester hydrochloride

Description:

Tryptophan hydroxylase inhibitor. Inhibits 5-HT synthesis. Depletes 5-HT levels in orbitofrontal cortex and impairs reversal learning in rats. Methyl ester of p-Chlorophenylalanine (Cat. No. 0938).

Physical and Chemical Properties:

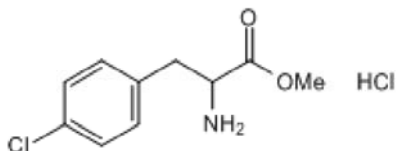
Batch Molecular Formula: C₁₀H₁₂ClNO₂.HCl

Batch Molecular Weight: 250.12

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM
ethanol 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:

Pinto Brod *et al* (2016) Involvement of monoaminergic system in the antidepressant-like effect of (octylseleno)-xylofuranoside in the mouse tail suspension test. *Prog.Neuropsychopharmacol.Biol.Psychiatry*. **65** 201. PMID: 26596986.

Wallace *et al* (2014) Vort. restores reversal learning impaired by 5-HT depletion or chronic intermittent cold stress in rats. *Int.J.Neuropsychopharmacol*. **17** 1695. PMID: 24852131.

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