

Certificate of Analysis

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Product Name: (RS)-Baclofen

Catalog No.: 0417

Batch No.: 9

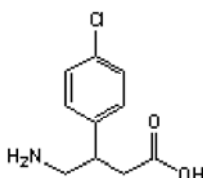
CAS Number: 1134-47-0

EC Number: 214-486-9

IUPAC Name: (RS)-4-Amino-3-(4-chlorophenyl)butanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₂ClNO₂
Batch Molecular Weight: 213.66
Physical Appearance: White crystalline solid
Solubility: 1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 222°C
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.21	5.66	6.56
Found	56.04	5.64	6.56

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

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Product Information

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Description:

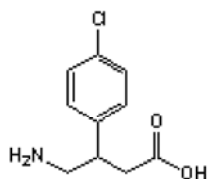
Selective GABA_B receptor agonist. Skeletal muscle relaxant. R-enantiomer also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₁₂ClNO₂
 Batch Molecular Weight: 213.66
 Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

Bowery et al (1993) GABA_B receptor pharmacology. *Annu.Rev.Pharmacol.Toxicol.* **33** 109. PMID: 8388192.

Berthelot et al (1991) 3-Thienylaminobutyric acid and 3-furylaminobutyric acids - synthesis and GABA_B receptor binding studies. *J.Med.Chem.* **34** 2557. PMID: 1652022.

Hill et al (1981) ³H-Baclofen and ³H-GABA bind to bicuculline-insensitive GABA_B sites in rat brain. *Nature* **290** 149. PMID: 6259535.

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