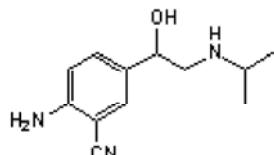


Certificate of Analysiswww.tocris.com**Product Name:** Cimaterol**Catalog No.:** 043**Batch No.:** 2

CAS Number: 54239-37-1

IUPAC Name: 2-Amino-5-[1-hydroxy-2-[(1-methylethyl)amino]ethyl]benzonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES**Batch Molecular Formula:** C₁₂H₁₇N₃O**Batch Molecular Weight:** 219.29**Physical Appearance:** White crystalline solid**Solubility:** ethanol to 100 mM
DMSO to 100 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.2 (Dichloromethane:2N Ammonia in IMS [85:15])**Melting Point:** Between 159 - 161°C**HPLC:** Shows 99.0% purity**¹H NMR:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 65.73 7.81 19.16

Found 65.36 7.79 19.13

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

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Product Information

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Product Name: Cimaterol

Catalog No.: 043

Batch No.: 2

CAS Number: 54239-37-1

IUPAC Name: 2-Amino-5-[1-hydroxy-2-[(1-methylethyl)amino]ethyl]benzonitrile

Description:

β-Adrenergic agonist.

Physical and Chemical Properties:

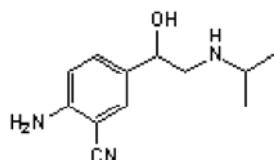
Batch Molecular Formula: C₁₂H₁₇N₃O

Batch Molecular Weight: 219.29

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM

DMSO 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:

Strosberg and Pietri-Rou el (1996) Function and regulation of the β_3 -adrenoceptor. *TiPS* **17** 373. PMID: 8979772.

Lafontan et al (1988) Mechanisms of actions of β -adrenergic agonists - lipomobilization and anabolism. *Reprod.Nutr.Develop.* **28** 61.

Engelhardt (1984) Structure activity relationships in further series of amino-halogen substituted phenyl-aminoethanols. *Arzneimittelforschung* **11A** 1625. PMID: 6152155.

Merck Index **12** 2336.

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