

Certificate of Analysis

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Product Name: BCH

Catalog No.: 5027

Batch No.: 3

CAS Number: 20448-79-7

IUPAC Name: 2-Aminobicyclo[2.2.1]heptane-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₃NO₂·¼H₂O

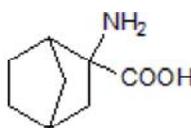
Batch Molecular Weight: 159.7

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	60.17	8.52	8.77
Found	60.37	8.67	8.82

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

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CAS Number: 20448-79-7

IUPAC Name: 2-Aminobicyclo[2.2.1]heptane-2-carboxylic acid

Description:

BCH is an inhibitor of L-type amino acid transporter LAT1. Suppresses growth and induces apoptosis via activation of caspases in KB, Saos2 and C6 cancer cell lines.

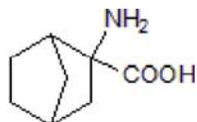
Physical and Chemical Properties:

Batch Molecular Formula: C₈H₁₃NO₂·¼H₂O

Batch Molecular Weight: 159.7

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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:

Kim et al (2008) BCH, an inhibitor of system L amino acid transporters, induces apoptosis in cancer cells. *Biol.Pharm.Bull.* **31** 1096. PMID: 18520037.

Lin et al (2004) L-type amino acid transporter-1 overexpression and melp. sensitivity in Barrett's adenocarcinoma. *Neoplasia* **6** 74. PMID: 15068672.

Fraga et al (2002) L-type amino acid transporters in two intestinal epithelial cell lines function as exchangers with neutral amino acids. *J.Nutr.* **132** 733. PMID: 11925469.

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