

Certificate of Analysis

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Product Name: L-Azidohomoalanine hydrochloride

Catalog No.: 6584

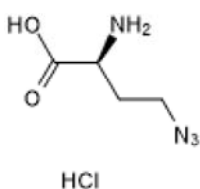
Batch No.: 2

CAS Number: 942518-29-8

IUPAC Name: (S)-2-Amino-4-azidobutanoic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₈N₄O₂.HCl
Batch Molecular Weight: 180.59
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +23.3 (Concentration = 1, Solvent = Water)

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

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Description:

Unnatural amino acid. Incorporated into proteins during de novo protein synthesis, with no effect on protein degradation. Requires methionine-free medium for efficient incorporation. Substrate for wild-type methionyl-tRNA synthetase (MetRS) in vivo. Can be used in BONCAT (bio-orthogonal non-canonical amino acid tagging) for the identification of newly synthesized proteins.

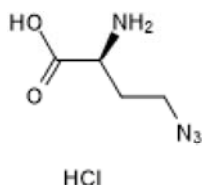
Physical and Chemical Properties:

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Physical Appearance: White solid

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Storage: Store at -20°C

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:

Wang et al (2017) Nonradioactive quantification of autophagic protein degradation with L-azidohomoalanine labeling. *Nat.Protoc.* **12** 279. PMID: 28079880.

Lang & Chin et al (2014) Cellular incorporation of unnatural amino acids and bioorthogonal labeling of proteins. *Chem.Rev.* **114** 4764. PMID: 24655057.

Dieterich et al (2006) Selective identification of newly synthesized proteins in mammalian cells using bioorthogonal noncanonical amino acid tagging (BONCAT). *Proc.Natl.Acad.Sci.U.S.A.* **103** 9482. PMID: 16769897.

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