

Certificate of Analysis

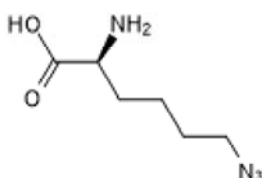
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Product Name: L-Azidonorleucine hydrochloride
CAS Number: 1454334-76-9
IUPAC Name: (S)-2-Amino-6-azidohexanoic acid hydrochloride

Catalog No.: 6585 **Batch No.:** 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₁₂N₄O₂.HCl
Batch Molecular Weight: 208.65
Physical Appearance: Off White solid
Solubility: water to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



HCl

2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +15.6 (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; surrogate methionine. Can be incorporated into proteins by a mutant methionyl tRNA synthetase to enable cell-type specific analysis of protein synthesis. For use with bio-orthogonal non-canonical amino-acid tagging (BONCAT) or fluorescent non-canonical amino acid tagging (FUNCAT). Labeling does not affect the normal localization of the labeled proteins.

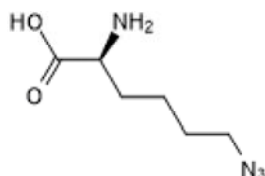
Physical and Chemical Properties:

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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:

Alvarez-Castelao et al (2017) Cell-type-specific metabolic labeling of nascent proteomes *in vivo*. *Nat.Biotechnol.* **35** 1196. PMID: 29106408.

Mahdavi et al (2016) Engineered aminoacyl-tRNA synthetase for cell-selective analysis of mammalian protein synthesis. *J.Am.Chem.Soc.* **138** 4278. PMID: 26991063.

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