bio-techne
TOCRIS

Print Date: Oct 16th 2023

Certificate of Analysis

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Product Name: **L-Azidonorleucine hydrochloride** **Catalog No.: 6585** **Batch No.: 4**

CAS Number: 1454334-76-9

IUPAC Name: (*S*)-2-Amino-6-azidohexanoic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_{12}N_4O_2.HCl$

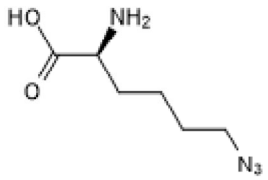
Batch Molecular Weight: 208.65

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



HCl

2. ANALYTICAL DATA

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D$ = +13.1 (Concentration = 1, Solvent = Water)

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IUPAC Name: (*S*)-2-Amino-6-azidohexanoic acid hydrochloride

Description:

L-Azidonorleucine hydrochloride is an unnatural amino acid; methionine surrogate. 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.

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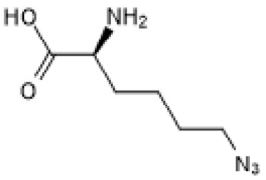

HCl

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.