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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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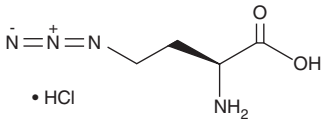
PRODUCT INFORMATION

L-Azidohomoalanine (hydrochloride)

Item No. 11786

CAS Registry No.:	942518-29-8
Formal Name:	2-amino-4-azido-butanoic acid, monohydrochloride
Synonym:	L-AHA
MF:	$C_4H_8N_4O_2$ • HCl
FW:	180.6
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

L-Azidohomoalanine (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the L-azidohomoalanine (hydrochloride) in the solvent of choice, which should be purged with an inert gas. L-Azidohomoalanine (hydrochloride) is soluble in methanol. L-Azidohomoalanine (hydrochloride) is slightly soluble in acetonitrile.

L-Azidohomoalanine (hydrochloride) is slightly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

L-Azidohomoalanine is a clickable form of the non-proteinogenic amino acid L-homoalanine (L-2-aminobutyric acid; Item No. 38750).[1] It is composed of an L-methionine derivative functionalized with a clickable azide group. L-Azidohomoalanine has been used for semiquantitative analysis of newly synthesized proteins in A549 epithelial cancer cells and neural progenitor cells derived from patients with fragile X syndrome.[1,2]

References

1. Wang, F., Kong, H., Meng, X., *et al.* A light-initiated chemical reporter strategy for spatiotemporal labeling of biomolecules. *RSC Chem. Biol.* **3(5)**, 539-545 (2022).
2. Raj, N., McEachin, Z.T., Harousseau, W., *et al.* Cell-type-specific profiling of human cellular models of fragile X syndrome reveal PI3K-dependent defects in translation and neurogenesis. *Cell Rep.* **35(2)**, 108991 (2021).

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