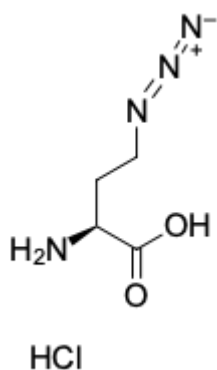


## AHA (L-Azidohomoalanine)

<http://www.lumiprobe.com/p/l-azidohomoalanine-aha>

L-Azidohomoalanine (AHA) is a noncanonical amino acid analog of methionine that contains an azide moiety. AHA-labeling is a fast, sensitive, non-toxic, and non-radioactive alternative to the traditional technique for detecting nascent protein synthesis.

AHA is the cell-permeable compound randomly incorporated into synthesizing protein instead of methionine during translation. The resulting azide-labeled full-length proteins can be detected via copper-catalyzed click reaction (with [fluorescent](#) or [biotin-labeled](#) alkynes) or copper-free click reaction (with [cycloalkynes](#)) and used for subsequent microscopic imaging or purification tasks.



### Structure of AHA (L-Azidohomoalanine)

#### General properties

Appearance: white to light beige powder

Molecular weight: 180.60

CAS number: 942518-29-8

Molecular formula: C<sub>4</sub>H<sub>9</sub>ClN<sub>4</sub>O<sub>2</sub>

IUPAC name: (S)-2-Amino-4-azidobutanoic acid

Solubility: water, DMSO, DMF

Quality control: NMR <sup>1</sup>H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

Legal statement: Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.