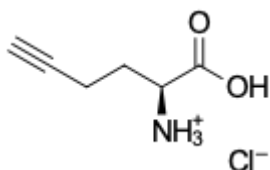


## HPG (L-Homopropargylglycine)

<http://www.lumiprobe.com/p/l-homopropargylglycine-hpg>

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

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



### Structure of L-Homopropargylglycine hydrochloride

#### General properties

- Appearance: off-white solid
- Molecular weight: 163.60
- CAS number: 942518-19-6
- Molecular formula: C<sub>6</sub>H<sub>10</sub>ClNO<sub>2</sub>
- Solubility: good in water, DMSO
- Quality control: NMR <sup>1</sup>H and GCMS (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: This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.