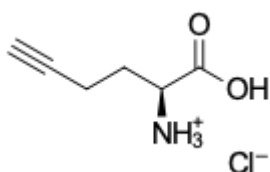


HPG (L-Homopropargylglycine)

<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: $C_6H_{10}ClNO_2$

Solubility: good in water (max. 125 mg/mL) and DMSO (max. 250 mg/mL)

Quality control: NMR 1H and HPLC-MS (95+%)

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