L-Homopropargylglycine (L-HPG)
(S)-2-Aminohex-5-ynoic acid

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLK-016-25</td>
<td>25 mg</td>
</tr>
<tr>
<td>CLK-016-100</td>
<td>100 mg</td>
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<tr>
<td>CLK-016-500</td>
<td>500 mg</td>
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</tbody>
</table>

Structural formula of L-Homopropargylglycine (L-HPG)

For research use only!

Shipping: shipped on blue ice
Storage Conditions: store at 4 °C
Additional Storage Conditions: store dry
Shelf Life: 12 months after date of delivery
Molecular Formula: C₆H₉NO₂ * HCl
Molecular Weight: 127.14 g/mol
CAS#: 98891-36-2
Purity: > 98 %
Form: off-white solid

Applications:
Proteins synthesis monitoring[1,2,3]

Description:
L-Homopropargylglycine (L-HPG) provides a non-radioactive alternative to analyze the global protein synthesis in cell culture. It is cell-permeable and randomly incorporated instead of methionine during translation[1,2,3]. The resulting alkyne-labeled full-length proteins can subsequently be detected via Cu(I)-catalyzed click chemistry that offers the choice to introduce a Biotin group (via Azides of Biotin) for subsequent purification tasks or a fluorescent group (via Azides of fluorescent dyes) for subsequent microscopic imaging.

Presolski et al.[4] and Hong et al.[5] provide a general protocol for Cu(I)-catalyzed click chemistry reactions that may be used as a starting point for the set up and optimization of individual assays.

Related Products:
Copper (II)-Sulphate (CuSO₄), #CLK-MI004
Tris(3-hydroxypropyltriazolylmethyl)amine (THPTA), #CLK-1010
Sodium Ascorbate (Na-Ascorbate), #CLK-MI005

Selected References: