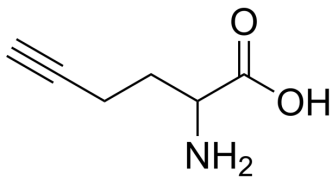
Homopropargylglycine

Cat. No.:	HY-W259668
CAS No.:	215160-72-8
Molecular Formula:	$C_6H_9NO_2$
Molecular Weight:	127.14
Target:	Others
Pathway:	Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 250 mg/mL (1966.34 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	7.8653 mL	39.3267 mL	78.6535 mL
	5 mM	1.5731 mL	7.8653 mL	15.7307 mL
	10 mM	0.7865 mL	3.9327 mL	7.8653 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Homopropargylglycine is a Methionine (HY-13694) analogue. Homopropargylglycine is incorporated at a suitable rate into newly synthesized proteins in a variety of systems, including mammalian cell culture. Homopropargylglycine can be used to identify old and new protein populations[1]. Homopropargylglycine is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

In Vitro

Homopropargylglycine enables Bio-Orthogonal Non-Canonical Amino acid Tagging (BONCAT) of a small sample of the proteins being synthesized in Arabidopsis plants or cell cultures, facilitating their click-chemistry enrichment for analysis[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tivendale ND, Millar AH, et al. In vivo homopropargylglycine incorporation enables sampling, isolation and characterization of nascent proteins from Arabidopsis thaliana. Plant J. 2021 Aug;107(4):1260-1276.

Caution: Product has not been fully validated for medical applications. For research use only.

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