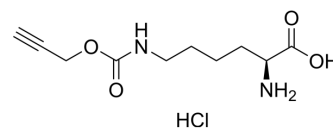


N-ε-propargyloxycarbonyl-L-lysine hydrochloride

Cat. No.:	HY-128676
CAS No.:	1428330-91-9
Molecular Formula:	C ₁₀ H ₁₇ ClN ₂ O ₄
Molecular Weight:	264.71
Target:	Amino Acid Derivatives
Pathway:	Others
Storage:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (377.77 mM)
 DMSO : 100 mg/mL (377.77 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.7777 mL	18.8886 mL	37.7772 mL
	5 mM	0.7555 mL	3.7777 mL	7.5554 mL
	10 mM	0.3778 mL	1.8889 mL	3.7777 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (9.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (9.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-ε-propargyloxycarbonyl-L-lysine (H-L-Lys(Poc)-OH) hydrochloride is a lysine-based unnatural amino acid (UAA). N-ε-propargyloxycarbonyl-L-lysine is widely used for bio-conjugation of fluorescent probes in diverse organisms from E. coli to mammalian cells even in animals^{[1][2]}. N-ε-propargyloxycarbonyl-L-lysine (hydrochloride) 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

Labeling of N- ϵ -propargyloxycarbonyl-L-lysine (H-L-Lys(Poc)-OH) hydrochloride-carrying cellular proteins, such as Sec61 β , Htt74Q and the histone H3 variant H3.3, with a sensitive Raman tag by click chemistry for molecular hyperspectral SRS imaging^[1].

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

REFERENCES

[1]. Enke HEIKE, et al. Modified microcystins and nodularins.WO2018206715A2

[2]. Kyung Jin Lee, et al. Site-Specific Labeling of Proteins Using Unnatural Amino Acids. Mol Cells. 2019 May 31;42(5):386-396.

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

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