

Certificate of Analysis

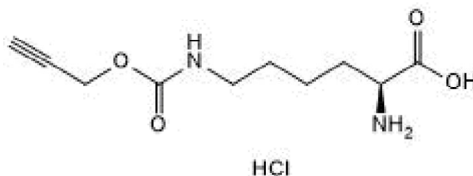
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Product Name: ProK
CAS Number: 1428330-91-9
IUPAC Name: *N*⁶-[(2-Propyn-1-yloxy)carbonyl]-L-lysine hydrochloride

Catalog No.: 7361 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₆N₂O₄.HCl.
Batch Molecular Weight: 264.71
Physical Appearance: White solid
Solubility: DMSO to 100 mM
water to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

GC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +21.6 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	45.37	6.47	10.58	13.39
Found	45.41	6.07	10.56	13.58

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: *N*⁶-[(2-Propyn-1-yloxy)carbonyl]-L-lysine hydrochloride

Description:

ProK is a lysine-based unnatural amino acid (UAA) used for genetic code expansion. It enables bioconjugation of fluorescent probes in *E. coli* or multicellular organisms.

Physical and Chemical Properties:

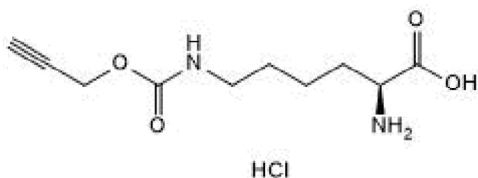
Batch Molecular Formula: C₁₀H₁₆N₂O₄.HCl.

Batch Molecular Weight: 264.71

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Meineke et al (2020) Site-specific incorporation of two ncAAs for two-color bioorthogonal labeling and crosslinking of proteins on live mammalian cells. *Cell Rep.* **31** 107811. PMID: 32579937.

Li et al (2014) Palladium-triggered deprotection chemistry for protein activation in living cells. *Nat. Chem.* **6** 352. PMID: 24651204.

Greiss et al (2011) Expanding the genetic code of an animal. *J.Am.Chem.Soc.* **133** 14196. PMID: 21819153.

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