

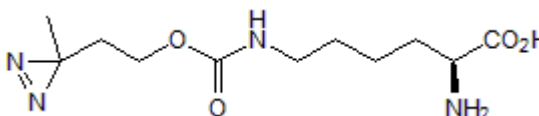
Certificate of Analysis

Product Name: AbK
CAS Number: 1253643-88-7
IUPAC Name: *N*⁶-[[2-(3-Methyl-3*H*-diazirin-3-yl)ethoxy]carbonyl]-L-lysine

Catalog No.: 5113 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₂₀N₄O₄
Batch Molecular Weight: 272.3
Physical Appearance: White solid
Solubility: water to 10 mM with gentle warming
 1eq. HCl to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >98.2% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.52	7.4	20.58
Found	48.44	7.48	20.54

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

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Description:

Unnatural amino acid. Acts as a UV light-activated photo-crosslinking probe when incorporated into proteins by pyrrolysyl tRNA synthetase/tRNA_{CUA} pairs.

Physical and Chemical Properties:

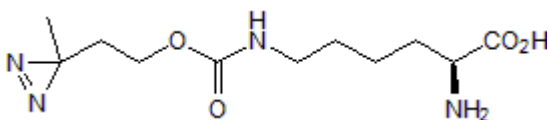
Batch Molecular Formula: C₁₁H₂₀N₄O₄

Batch Molecular Weight: 272.3

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 10 mM with gentle warming

1eq. HCl 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. Our standard recommendations are:

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:

Ai et al (2011) Probing protein-protein interactions with a genetically encoded photo-crosslinking amino acid. *Chembiochem* **12** 1854. PMID: 21678540.

Lowder et al (2011) Visualizing protein partnerships in living cells and organisms. *Curr.Opin.Cell Biol.* **15** 781. PMID: 22104179.

Chatterjee et al (2013) Efficient viral delivery system for unnatural amino acid mutagenesis in mammalian cells. *Proc.Natl.Acad.Sci.U.S.A.* **110** 11803. PMID: 23818609.

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