

Product Name: NAIA

Catalog No.: 8910

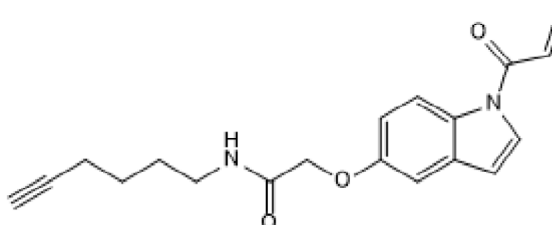
Batch No.: 1

CAS Number: 3020685-33-7

IUPAC Name: *N*-5-Hexyn-1-yl-2-[[1-(1-oxo-2-propen-1-yl)-1*H*-indol-5-yl]oxy]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₀N₂O₃.
Batch Molecular Weight: 324.38
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.35	6.21	8.64
Found	70.27	6.28	8.68

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

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Description:

NAIA (N-Acryloylindole-alkyne) is a broad-spectrum cysteine reactive probe enabling cysteine profiling and imaging. It covalently binds cysteine residues in proteins. Displays faster reaction kinetics with CYS ($k > 10^2 \text{ M}^{-1} \text{ s}^{-1}$) and targets an expanded pool of ligandable cysteines and proteins compared to IA-Alkyne (Cat. No. 7015). Also shows higher stability and selectivity for CYS over SER and LYS than IA-Alkyne (Cat. No. 7015). NAIA is used in chemoproteomics experiments as a click-chemistry handle to attach a fluorophore or biotin to reactive cysteines in proteins for visualization by in-gel fluorescence or identification by mass sp... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

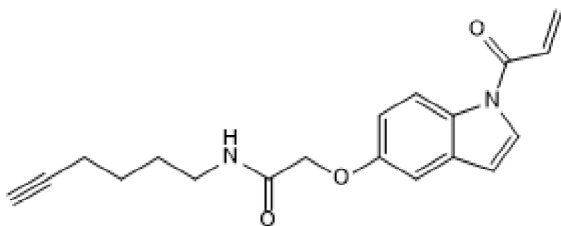
Batch Molecular Formula: C₁₉H₂₀N₂O₃.

Batch Molecular Weight: 324.38

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Koo et al (2025) Activity-based protein profiling for functional cysteines and protein target identification *Methods Mol.Biol.* **2921** 331. PMID: 40515999.

Koo et al (2023) N-Acryloylindole-alkyne (NAIA) enables imaging and profiling new ligandable cysteines and oxidized thiols by chemoproteomics. *Nat.Commun.* **14** 3564. PMID: 37322008.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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.

Licensing Information:

Sold under license from Versitech Limited

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