

Certificate of Analysis

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Product Name: IA-Alkyne

Catalog No.: 7015

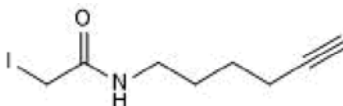
Batch No.: 1

CAS Number: 930800-38-7

IUPAC Name: N-5-Hexyn-1-yl-2-iodoacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₂I₂NO
Batch Molecular Weight: 265.09
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

GC: Shows 97.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	36.25	4.56	5.28
Found	36.27	4.55	5.36

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Batch No.: 1

CAS Number: 930800-38-7

IUPAC Name: N-5-Hexyn-1-yl-2-iodoacetamide

Description:

Broad spectrum cysteine reactive probe. Covalently binds cysteine residues in proteins. Can be utilized for covalent fragment-based ligand discovery (FBLD) and to identify Zn²⁺-binding cysteines. Used 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 spectrometry, respectively. Covalently binds cysteine residues in and activates TRPA1 channels.

Physical and Chemical Properties:

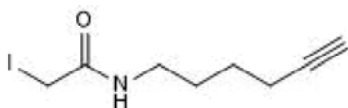
Batch Molecular Formula: C₈H₁₂INO

Batch Molecular Weight: 265.09

Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



References:

Backus et al (2016) Proteome-wide covalent ligand discovery in native biological systems. *Nature* **534** 570. PMID: 27309814.

Pace and Weerapana et al (2014) A competitive chemical-proteomic platform to identify zinc-binding cysteines. *ACS Chem.Biol.* **9** 258. PMID: 24111988.

Macpherson et al (2007) Noxious compounds activate TRPA1 ion channels through covalent modification of cysteines. *Nature* **445** 541. PMID: 17237762.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

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North America

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