

Product Name: 1-Hex-GlcNAIk

Catalog No.: 7751

Batch No.: 1

CAS Number: 2863607-71-8

IUPAC Name: (2S,3R,4R,5S,6R)-4,5-Dihydroxy-6-(hydroxymethyl)-3-(pent-4-ynamido)tetrahydro-2H-pyran-2-yl hexanoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₇NO₇·½H₂O

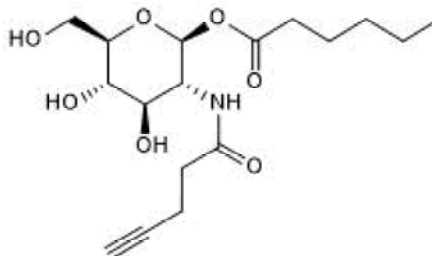
Batch Molecular Weight: 366.41

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.73	7.7	3.82
Found	55.11	7.9	3.72

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

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Description:

1-Hex-GlcNAk is a metabolic chemical reporter (MCR) for studying glycoproteins and glycosylation; it comprises GlcNAk functionalized at the anomeric position with hexanoic acid. 1-Hex-GlcNAk exhibits time- and concentration-dependent specific enzymatic labeling of proteins in HeLa cells, with negligible background labeling detected in cell lysates.

Physical and Chemical Properties:

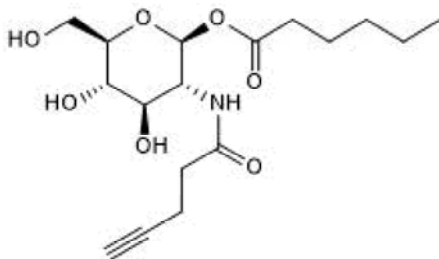
Batch Molecular Formula: C₁₇H₂₇NO₇·½H₂O

Batch Molecular Weight: 366.41

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



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. 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:

Pedowitz *et al* (2021) Anomeric fatty acid functionalization prevents nonenzymatic S-glycosylation by monosaccharide metabolic chemical reporters. *ACS Chem Biol* **16** 1924. PMID: 34282887.

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