

Product Name: Ac₄GalN6yne

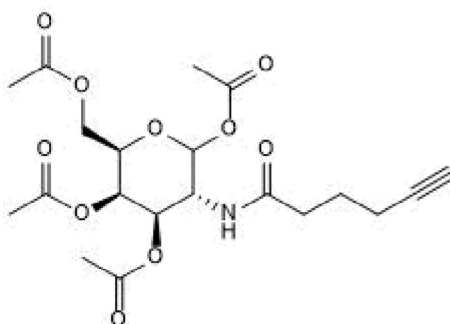
Catalog No.: 7932

Batch No.: 1

IUPAC Name: 2-Deoxy-2-[(1-oxo-5-hexyn-1-yl)amino]-D-galactopyranose-1,3,4,6-tetraacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₇NO₁₀.
Batch Molecular Weight: 441.43
Physical Appearance: White solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

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

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.42	6.17	3.17
Found	53.96	6.2	3.12

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

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Description:

Ac₄GalN6yne is a cell-permeable alkyne-containing monosaccharide building block. It can be used in Bio-Orthogonal Cell-specific Tagging of Glycoproteins (BOCTAG) technique. In this strategy, cells carrying an artificial biosynthetic pathway (B. longum NahK and mut-AGX1) can generate alkyne-tagged UDP-GalN6yne, that are then used by glycosyltransferases to chemically tag the glycoproteome. Ac₄GalN6yne can be used for bioorthogonal labelling in vitro and mouse models.

Physical and Chemical Properties:

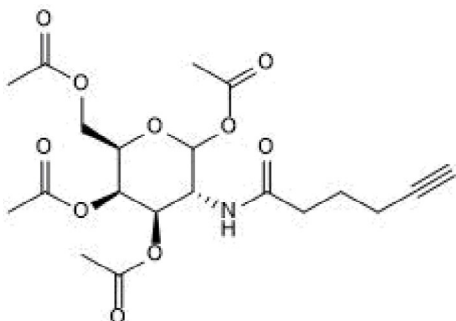
Batch Molecular Formula: C₂₀H₂₇NO₁₀.

Batch Molecular Weight: 441.43

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Cioce *et al* (2022) Cell-specific bioorthogonal tagging of glycoproteins. Nat.Commun. **13** 6237. PMID: 36284108.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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.

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