

Ac4GlcNAz (N-Azidoacetylglucosamine-tetraacylated)

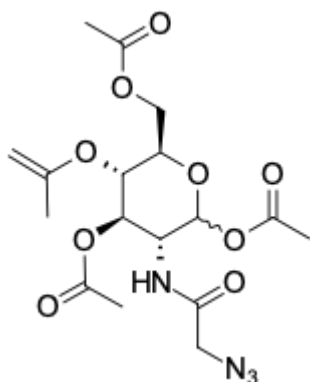
<http://www.lumiprobe.com/p/tetraacetyl-n-azidoacetylglucosamine-ac4glcnaz>

Tetraacylated N-azidoacetylglucosamine (Ac4GlcNAz) is an azide-labeled monosaccharide widely used to study glycoproteins through *in vivo* metabolic incorporation followed by chemoselective ligation.

Ac4GlcNAz is a synthetic sugar that can penetrate cells, where it is recruited into natural metabolic pathways and displaces the endogenous N-acetylglucosamine (GlcNAc).

This results in the formation of glycoproteins bearing azide groups, which can be detected by click chemistry—a [Cu\(I\)-catalyzed \(CuAAC\)](#) or [copper-free \(SPAAC\)](#) reaction—using fluorescent [alkynes/cycloalkynes](#) or [biotin-alkyne](#).

Concentrations of 25–75 μM are typically used for cell labeling; this range provides a convenient starting point for developing an experimental protocol.



Structure of Ac4GlcNAz

General properties

Appearance: white solid

Molecular weight: 430.37

CAS number: 98924-81-3

Molecular formula: $\text{C}_{16}\text{H}_{22}\text{N}_4\text{O}_{10}$

Solubility: DMSO, DMF, DCM, THF, Chloroform

Quality control: NMR ^1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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