

Ac4GlcNAz (N-Azidoacetylglucosamine-tetraacylated)

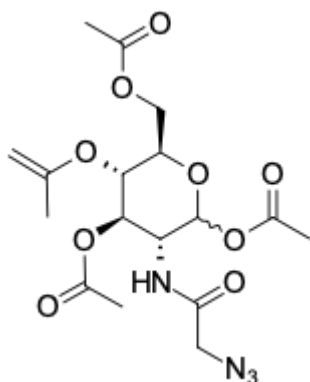
<http://www.lumiprobe.com/p/tetraacetyl-n-azidoacetylglucosamine-ac4glcnaz>

The tetraacylated N-Azidoacetyl-glucosamine (Ac4GlcNAz) is an azide-labeled monosaccharide that provides a highly specific tool for studying glycoproteins through metabolic labeling *in vivo* and subsequent chemoselective ligation.

Ac4GlcNAz is cell-permeable unnatural sugar that is intracellularly processed and incorporated instead of its natural monosaccharide counterpart N-Acetylglucosamine (GlcNAc).

The resulting azide-contained glycoprotein can be detected via [Cu\(I\)-catalyzed \(CuAAC\)](#) or [copper-free \(SPAAC\)](#) click reaction with either fluorescent-labeled [alkynes/cycloalkynes](#) or [biotin-alkyne](#).

The recommended concentration for cell labeling is 25-75 μM , and this concentration range may be a starting point for an individual experiment setup.



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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