

Ac4ManNAz (N-Azidoacetylmannosamine-tetraacylated)

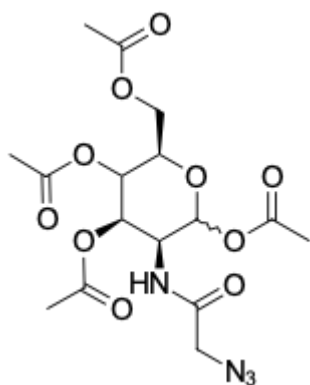
<http://www.lumiprobe.com/p/tetraacetyl-n-azidoacetylmannosamine-ac4mannaz>

The tetraacetylated N-Azidoacetyl-mannosamine (Ac4ManNAz) is an azide-labeled monosaccharide that provides a highly specific tool for studying glycoproteins through metabolic labeling *in vivo* and subsequent chemoselective ligation.

Ac4ManNAz is cell-permeable unnatural sugar that is intracellularly processed and incorporated instead of its natural monosaccharide counterpart N-Acetylmannosamine (ManNAc).

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 μ M, and this concentration range may be a starting point for an individual experiment setup.



Structure of Ac4ManNAz

General properties

Appearance: white solid

Molecular weight: 430.37

CAS number: 361154-30-5

Molecular formula: $C_{16}H_{22}N_4O_{10}$

Solubility: Soluble to 100 mM in DMSO

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

Storage conditions: 24 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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