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Ac4GalNAz (N-Azidoacetylgalactosamine-tetraacylated)

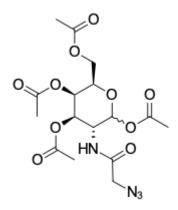
http://www.lumiprobe.com/p/tetraacetyl-n-azidoacetylgalactosamine-ac4galnaz

The tetraacetylated N-Azidoacetyl-galactosamine (Ac4GalNAz) is an azide-labeled monosaccharide that provides a highly specific tool for studying glycoproteins through metabolic labeling *in vivo* and subsequent chemoselective ligation.

Ac4GalNAz is cell-permeable unnatural sugar that is intracellularly processed and incorporated instead of its natural monosaccharide counterpart N-Acetylgalactosamine (GalNAc).

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

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 Ac4GalNAz

General properties

Appearance: white crystals

Molecular weight: 430.37

CAS number: 653600-56-7 Molecular formula: $C_{16}H_{22}N_4O_{10}$

Solubility: DMSO, DMF, DCM, THF, Chloroform

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

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

Desiccate.

Legal statement: Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in

food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial

purposes.