Lumiprobe Corporation
201 International Circle, Suite 135
Hunt Valley, Maryland 21030
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

Ac4GalNAz (N-Azidoacetylgalactosamine-tetraacylated)

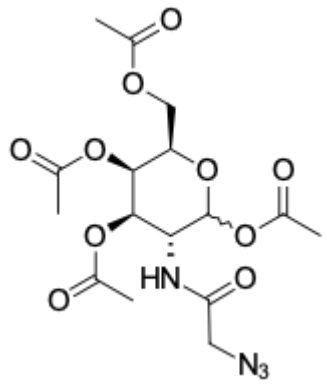
http://www.lumiprobe.com/p/tetraacetyl-n-azidoacetylgalactosamine-ac4galnaz

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 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 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.