

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

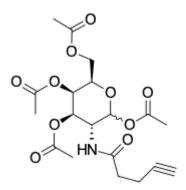
Ac4GalNAI (N-(4-pentynoyl)-galactosamine-tetraacylated)

http://www.lumiprobe.com/p/tetraacetyl-n-4-pentynoyl-galactosamine-ac4galnal

The tetraacetylated N-(4-pentynoyl)-galactosamine (Ac4GalNAI) is an alkyne-labeled monosaccharide that provides a highly specific tool for studying glycoproteins through metabolic labeling *in vivo* and subsequent chemoselective ligation.

Ac4GalNAl is cell-permeable unnatural sugar that is intracellularly processed and incorporated instead of its natural monosaccharide counterpart N-acetylgalactosamine (GalNAc).

The resulting alkyne-contained glycoprotein can be detected via $\underline{\text{Cu(I)-catalyzed (CuAAC)}}$ click reaction with either fluorescent-labeled <u>azides</u> or <u>biotin-azide</u>.



Structure of Ac4GalNAI (N-(4-pentynoyl)galactosamine-tetraacylated)

General properties

Appearance: white solid Molecular weight: 427.40

CAS number: 1658458-26-4 Molecular formula: $C_{19}H_{25}NO_{10}$

IUPAC name: 1,3,4,6-Tetra-O-acetyl-2-deoxy-2-(4-pentynoylamino)- α -D-galactopyranose

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.