

## **Lumiprobe Corporation**

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## Ac4ManNAI (N-(4-pentynoyl)-mannosamine-tetraacylated)

http://www.lumiprobe.com/p/tetraacetyl-n-4-pentynoyl-mannosamine-ac4mannal

The tetraacetylated N-(4-pentynoyl)-mannosamine (Ac4ManNAI) is an alkyne-labeled monosaccharide that provides a highly specific tool for studying glycoproteins through metabolic labeling *in vivo* and subsequent chemoselective ligation.

Ac4ManNAl is cell-permeable unnatural sugar that is intracellularly processed and incorporated instead of its natural monosaccharide counterpart N-acetylmannosamine (ManNAc).

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

Structure of Ac4ManNAI (N-(4-pentynoyl)mannosamine-tetraacylated)

## **General properties**

Appearance: white powder

Molecular weight: 427.41

CAS number: 935658-93-8 Molecular formula:  $C_{10}H_{25}NO_{10}$ 

IUPAC name: 2-deoxy-2-[(1-oxo-4-pentyn-1-yl)amino]-1,3,4,6-Tetraacetate-D-Mannopyranose

Solubility: DMSO, DMF, DCM, THF, Chloroform Quality control: NMR <sup>1</sup>H and HPLC-MS (95+%)

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

conditions: 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.