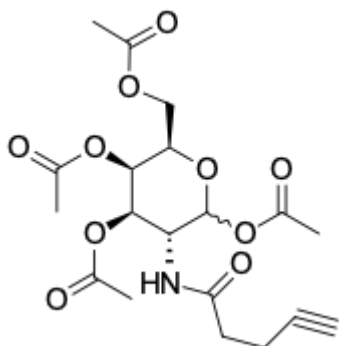


## Ac4GalNAI (N-(4-pentynoyl)-galactosamine-tetraacylated)

<http://www.lumiprobe.com/p/tetraacetyl-n-4-pentynoyl-galactosamine-ac4galnai>

Tetraacetylated N-(4-pentynoyl)galactosamine (Ac4GalNAI) is an alkyne-labeled monosaccharide designed for metabolic labeling of galactosamine-containing glycoconjugates. Due to its acetylated groups, the compound readily penetrates cells, where it is deacetylated and integrated into biosynthetic glycosylation pathways instead of natural N-acetylgalactosamine (GalNAc).

Glycoconjugates containing the incorporated alkyne can be selectively visualized or affinity enriched using [Cu\(I\)-catalyzed \(CuAAC\)](#) click reaction with [fluorescent](#) or [biotinylated](#) azides, making Ac4GalNAI a valuable tool for studying the structure and dynamics of O-galactosaminylated biomolecules.



**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<sub>19</sub>H<sub>25</sub>NO<sub>10</sub>
- IUPAC name: 1,3,4,6-Tetra-O-acetyl-2-deoxy-2-(4-pentynoylamino)- $\alpha$ -D-galactopyranose
- Solubility: DMSO, DMF, DCM, THF, chloroform
- Quality control: NMR <sup>1</sup>H and HPLC-MS (95+%)
- Storage conditions: 24 months after receipt 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.