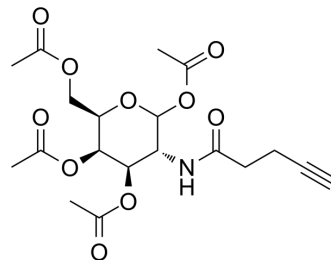


## Ac4GalNAk

Cat. No.:	HY-W415798
CAS No.:	1810852-60-8
Molecular Formula:	C <sub>19</sub> H <sub>25</sub> NO <sub>10</sub>
Molecular Weight:	427
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Ac4GalNAk is a weakly alkyne-labeled reagent for metabolic oligosaccharide engineering (MOE) that can be used to detect protein glycosylation. MOE reagents can be activated by cellular biosynthetic machinery into nucleotide sugars, which can be further traced through the introduction of glycoproteins in bioorthogonal chemistry. Ac4GalNAk promotes nucleotide-sugar biosynthesis and increases bioorthogonal cell surface markers<sup>[1]</sup>.

### REFERENCES

[1]. Cioce A, et al. Optimization of Metabolic Oligosaccharide Engineering with Ac4GalNAk and Ac4GlcNAk by an Engineered Pyrophosphorylase. ACS Chem Biol. 2021 Oct 15;16(10):1961-1967.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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