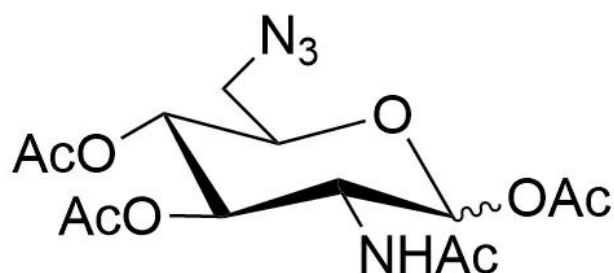


## 6-AZIDO-6-DEOXY-N-ACETYL-GLUCOSAMINE TRIACYLATED (AC3-6AZGLCNAC)

SKU: CCT-1258



### Description

6-azido-6-deoxy-N-acetyl-glucosamine triacylated (Ac36AzGlcNac) is an azide-containing, specific metabolic chemical reporter for O-GlcNAcylated proteins. Notably, 6AzGlcNac cannot be biosynthetically transformed into the corresponding UDP sugar-donor by the canonical salvage-pathway that requires phosphorylation at the 6-hydroxyl. In vitro experiments showed that 6AzGlcNac can bypass this roadblock through direct phosphorylation of its 1-hydroxyl by the enzyme phosphoacetylglucosamine mutase (AGM1). The azide-modified protein is detected with either fluorescent alkynes or biotin alkyne. The acetyl groups increase cell permeability and allow the unnatural sugars to easily pass through the cell membrane. Carboxyesterases remove the acetyl groups once the monosaccharide is in the cell.

### Specifications

<b>Unit Size</b>	5 mg, 25 mg, 100 mg
<b>Molecular weight</b>	372.33
<b>Chemical composition</b>	C <sub>14</sub> H <sub>20</sub> N <sub>4</sub> O <sub>8</sub>
<b>CAS</b>	N/A
<b>Solubility</b>	DMSO, DMF, DCM, THF, Chloroform
<b>Appearance</b>	White to grey amorphous solid
<b>Storage Conditions</b>	-20°C.

For research use only. Not intended for animal or human therapeutic or diagnostic use.

**Shipping Conditions**

Ambient temperature

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