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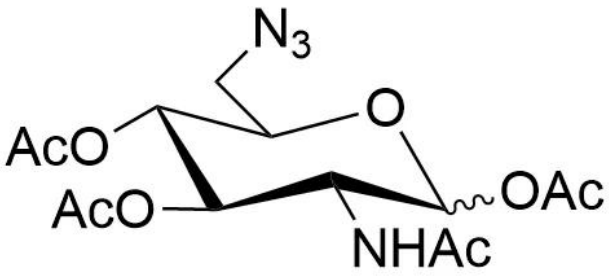
6-AZIDO-6-DEOXY-N-ACETYL-GLUCOSAMINE TRIACYLATED (AC3-6AZGLCNAC)

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

CAS Number	N/A
Molecular Weight	372.33
Appearance	White to grey amorphous solid

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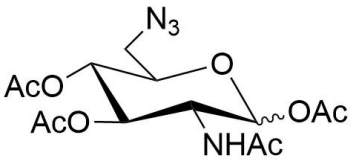
Chemical Formula	C14H20N4O8
Unit Size	5 mg, 25 mg, 100 mg
Solubility	DMSO, DMF, DCM, THF, Chloroform
Storage Instructions	-20°C.
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES



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