



Man2NAc4NAc6N₃

Product Name

6-Azido-2,4-diacetamido-2,4,6-trideoxy-D-mannose

CAS Number

[1447950-85-7]

Cat. No.	Amount
man2nac4nac6-0.5	0.5 mg (0.15 µmol)
man2nac4nac6-2.5	2.5 mg (0.75 µmol)
man2nac4nac6-5	5 mg (1.5 µmol)



Structural formula of pLeg-N₃

For research use only

Chemical Composition: C₁₀H₁₇N₅O₅

Molecular Weight: 287.28

Solubility: H₂O, DMSO, MeOH.

Form: White lyophilized powder.

Storage Conditions: At -20°C.

Shipping: At ambient temperature.

Applications

Metabolic Glycan Labeling. Cell-surface Glycan Labeling.

Species-specific Metabolic Lipopolysaccharides (LPS) labeling (*Legionella pneumophila*).

Azido-containing saccharides can be labeled with Alkyne-containing reporter molecules via Cu(I)-catalyzed Azide-Alkyne Cycloaddition (CuAAC, terminal alkyne), or via copper-free Strain-Promoted

Description

Azido-containing monosaccharide for metabolic labeling of cell-surface glycan.

6-Azido-2,4-diacetamido-2,4,6-trideoxy-D-mannose (Man2NAc4NAc6N₃) is an analogue of the natural 2,4-diacetamido-2,4,6-trideoxy-D-mannose that contains a very small modification, specifically an azido moiety. This molecule incorporated by cultured cells (*Legionella pneumophila*, for example) and incorporated into glycan (LPS, for example) during active glycan biosynthesis.

Detection utilizes the chemoselective ligation or "click" reaction between an azide and an alkyne or cyclooctyne. The azido modified glycan is detected with either a fluorescent alkyne or a biotin alkyne.

Azide and alkyne groups do not react or interfere with other functional groups found in biological samples but conjugate to one another with high efficiency.

References

J. Mas, A. Dumont, G. Sautejeau, E. Fugier, A. Baron, S. Dukan, B. Vauzeilles, *Angew. Chem., Int. Ed.*, 2014, 53, 1275-1278.