

N-Acetylglucosaminyltransferase III (MGAT3)

Product Information

Cat#	DIA-772
Descriptions	N-Acetylglucosaminyltransferase III (MGAT3) introduces a bisecting N-acetylglucosamine residue via β -1,4 linkage to the core β -mannose of N-glycans, modulates glycoprotein biological functions, and regulates tumor metastasis and cell adhesion properties.
Applications	N-Acetylglucosaminyltransferase III (MGAT3) is suitable for bisecting N-glycan detection kits and tumor metastasis related assay reagent development.
CAS No.	24-1-14411
Enzyme Commission Number	EC 2.4.1.144
Enzyme Source	CHO-derived
Reaction	$\text{N4-}\{\beta\text{-D-GlcNAc- (1-}\rightarrow\text{2)-}\alpha\text{-D-Man- (1-}\rightarrow\text{3)-}\}[\beta\text{-D-GlcNAc- (1-}\rightarrow\text{2)-}\alpha\text{-D-Man- (1-}\rightarrow\text{6)}]\text{-}\beta\text{-D-Man- (1-}\rightarrow\text{4)-}\beta\text{-D-GlcNAc- (1-}\rightarrow\text{4)-}\beta\text{-D-GlcNAc}\}\text{-L-asparaginyl-[protein]} + \text{UDP-N-acetyl-}\alpha\text{-D-glucosamine} = \text{H}^+ + \text{N4-}\{\beta\text{-D-GlcNAc- (1-}\rightarrow\text{2)-}\alpha\text{-D-Man- (1-}\rightarrow\text{3)-}\}[\beta\text{-D-GlcNAc- (1-}\rightarrow\text{4)}]\text{-}\{\beta\text{-D-GlcNAc- (1-}\rightarrow\text{2)-}\alpha\text{-D-Man- (1-}\rightarrow\text{6)}]\text{-}\beta\text{-D-Man- (1-}\rightarrow\text{4)-}\beta\text{-D-GlcNAc- (1-}\rightarrow\text{4)-}\beta\text{-D-GlcNAc}\}\text{-L-asparaginyl-[protein]} + \text{UDP}$
Activity Definition	Measured by its ability to transfer N-Acetyl- α -D-glucosamine from UDP-N-Acetyl- α -D-glucosamine to a biantennary N-linked core pentasaccharide in a CD39L3 coupled assay.