

N-Acetylglucosaminyltransferase 2 (MGAT2)

Product Information

Cat#	DIA-771
Descriptions	N-Acetylglucosaminyltransferase 2 (MGAT2), also designated as GnT-II, transfers N-acetylglucosamine to the α -1,6 mannose arm of N-glycans, initiates biantennary complex N-glycan formation, and is essential for mature N-glycan biosynthesis.
Applications	N-Acetylglucosaminyltransferase 2 (MGAT2) is used for biantennary complex N-glycan detection kits and N-glycan maturation assay reagent development.
CAS No.	24-1-14310
Enzyme Commission Number	EC 2.4.1.143
Enzyme Source	Human embryonic kidney cell, HEK293-derived human N-Acetylglucosaminyltransferase 2/MGAT2 protein.
Reaction	$\text{N4-}\{\text{beta-D-GlcNAc- (1-}\rightarrow\text{2)-alpha-D-Man- (1-}\rightarrow\text{3)-[alpha-D-Man- (1-}\rightarrow\text{6)]-beta-D-Man- (1-}\rightarrow\text{4)-beta-D-GlcNAc- (1-}\rightarrow\text{4)-beta-D-GlcNAc}\}\text{-L-asparaginyI-[protein]} + \text{UDP-N-acetyl-alpha-D-glucosamine} = \text{H}^+ + \text{N4-}\{\text{beta-D-GlcNAc- (1-}\rightarrow\text{2)-alpha-D-Man- (1-}\rightarrow\text{3)-[beta-D-GlcNAc- (1-}\rightarrow\text{2)-alpha-D-Man- (1-}\rightarrow\text{6)]-beta-D-Man- (1-}\rightarrow\text{4)-beta-D-GlcNAc- (1-}\rightarrow\text{4)-beta-D-GlcNAc}\}\text{-L-asparaginyI-[protein]} + \text{UDP}$
Activity Definition	Measured by its ability to modify the glycan Cy5-labeled M1N1f and thereby creating a band shift.