

Glucosaminyl (N-acetyl) Transferase 4 Core 2/C2GNT3 (GCNT4)

Product Information

Cat#	DIA-727
Descriptions	Glucosaminyl (N-acetyl) Transferase 4 Core 2/C2GNT3 (GCNT4) is a core 2-specific glycosyltransferase isoform that synthesizes core 2 O-glycan structures with tissue-restricted expression patterns, and plays a role in mucosal barrier formation and epithelial cell glycosylation.
Applications	Glucosaminyl (N-acetyl) Transferase 4 Core 2/C2GNT3 (GCNT4) serves as a tool for epithelial mucin glycosylation detection kits and mucosal barrier function assay reagent development.
CAS No.	24-1-1026
Enzyme Commission Number	EC 2.4.1.102
Enzyme Source	Chinese Hamster Ovary cell line, CHO-derived human C2GNT3/GCNT4 protein.
Reaction	O3-[beta-D-galactosyl- (1->3)-N-acetyl-alpha-D-galactosaminyl]-L-seryl-[protein] + UDP-N-acetyl-alpha-D-glucosamine = 3-O-{beta-D-galactosyl- (1->3)-[N-acetyl-beta-D-glucosaminyl- (1->6)]-N-acetyl-alpha-D-galactosaminyl}-L-seryl-[protein] + H ⁺ + UDP
Activity Definition	Measured by its ability to transfer GlcNAc from UDP-GlcNAc to B1-3 galactosyl-N-acetyl galactosamine.