Creative Enzymes
Diagnostic Enzymes

Glucosaminyl (N-acetyl) Transferase 1 (GCNT1)

Product Information

Cat#	DIA-725
Descriptions	Glucosaminyl (N-acetyl) Transferase 1 (GCNT1), also known as core 2 β1,6-N-acetylglucosaminyltransferase, constructs core 2 branched O-glycan structures by adding GlcNAc to GalNAc residues, regulates mucin glycosylation, and participates in immune cell trafficking and tumor progression.
Applications	Glucosaminyl (N-acetyl) Transferase 1 (GCNT1) is suitable for core 2 O-glycan detection kits and immune cell trafficking assay reagent development.
CAS No.	24-1-1027
Enzyme Commission Number	EC 2.4.1.102
Enzyme Source	Trichoplusia ni, High Five (baculovirus)-derived human Glucosaminyl (N-acetyl) T.
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.

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