

Polypeptide N-Acetylgalactosaminyltransferase 1 (GALNT1)

Product Information

Cat#	DIA-792
Descriptions	Polypeptide N-acetylgalactosaminyltransferase 1 (GALNT1) initiates mucin-type O-glycosylation by transferring N-acetylgalactosamine to serine or threonine residues of polypeptide substrates, exhibits broad substrate specificity, and is responsible for the initial step of O-linked glycan biosynthesis in most tissues.
Applications	Polypeptide N-acetylgalactosaminyltransferase 1 (GALNT1) is suitable for O-glycan initiation detection kits and mucin-type glycosylation assay reagent development.
Enzyme Commission Number	EC 2.4.1.41
Enzyme Source	Trichoplusia ni, High Five (baculovirus)-derived human Polypeptide Gal Nac Trans.
Reaction	L-seryl-[protein] + UDP-N-acetyl-alpha-D-galactosamine = 3-O-[N-acetyl-alpha-D-galactosaminyl]-L-seryl-[protein] + H ⁺ + UDP
Activity Definition	Measured by its ability to transfer GalNAc from UDP-GalNAc to peptide EA2 .