

Recombinant Human ST3GAL1

Cat. No. ST3GAL1-29816TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SIAT4A with N terminal proprietary tag. Predicted MW 63.47 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	340 amino acids
Description	The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein is normally found in the Golgi but can be proteolytically processed to a soluble form. Correct glycosylation of the encoded protein may be critical to its sialyltransferase activity. This protein, which is a member of glycosyltransferase family 29, can use the same acceptor substrates as does sialyltransferase 4B. Two transcript variants encoding the same protein have been found for this gene. Other transcript variants may exist, but have not been fully characterized yet.
Molecular Weight	63.470kDa inclusive of tags
Tissue specificity	Expressed in several tissues. Highest expression in lung, liver, skeletal muscle, kidney, pancreas, spleen and placenta.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the glycosyltransferase 29 family.
GENE INFORMATION	
Gene Name	ST3GAL1 ST3 beta-galactoside alpha-2,3-sialyltransferase 1 [Homo sapiens]
Official Symbol	ST3GAL1
Synonyms	ST3GAL1; ST3 beta-galactoside alpha-2,3-sialyltransferase 1; sialyltransferase 4A (beta galactosidase alpha 2,3 sialyltransferase) , SIAT4A; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase 1; SIATFL; ST3Gal I; ST3GalA.1; ST3O;
Gene ID	6482
mRNA Refseq	NM_173344
Protein Refseq	NP_775479
MIM	607187
Uniprot ID	Q11201
Chromosome	8q24.22

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Location	
Pathway	Glycosaminoglycan biosynthesis - keratan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - keratan sulfate, conserved biosystem; Glycosphingolipid biosynthesis - ganglio series, organism-specific biosystem; Glycosphingolipid biosynthesis - ganglio series, conserved biosystem; Glycosphingolipid biosynthesis - globo series, organism-specific biosystem;
Function	beta-galactoside (CMP) alpha-2,3-sialyltransferase activity;

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