

Active Recombinant Human ST3GAL2 Protein, His-tagged

Cat. No. ST3GAL2-577H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ST3GAL2 /SIAT4B Protein (rh ST3GAL2 / SIAT4B) Pro 52 - Asn 350 (Accession # AAH36777) was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	52-350 a.a.
Predicted N Terminal	Pro 52
Form	Lyophilized from sterile 50 mM Tris, 150 mM NaCl, pH 7.5, 10% Trehalose.
Bio-activity	Measured by its ability to transfer Neu5Ac from CMP-Neu5Ac to bovine asialofetuin. The specific activity is >750 pmol/min/ug.
Molecular Mass	Human ST3GAL2, His Tag is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 35.2 kDa. The reducing (R) protein migrates as 36 kDa in SDS-PAGE due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>92% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.

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Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	ST3GAL2 ST3 beta-galactoside alpha-2,3-sialyltransferase 2 [Homo sapiens]
Official Symbol	ST3GAL2
Synonyms	ST3GAL2; ST3 beta-galactoside alpha-2,3-sialyltransferase 2; sialyltransferase 4B (beta galactosidase alpha 2,3 sialyltransferase) , SIAT4B; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase 2; ST3GalA.2; ST3GALII; SIAT4-B; ST3Gal II; alpha 2,3-ST 2; beta-galactoside alpha-2,3-sialyltransferase; beta-galactoside alpha-2,3-sialyltransferase 2; Gal-beta-1,3-GalNAc-alpha-2,3-sialyltransferase; sialyltransferase 4B (beta-galactosidase alpha-2,3-sialyltransferase); SIAT4B; Gal-NAc6S;
Gene ID	6483
mRNA Refseq	NM_006927
Protein Refseq	NP_008858
MIM	607188
UniProt ID	Q16842
Chromosome	16q22.3

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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;
	Glycosphingolipid biosynthesis - globo series, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	beta-galactoside (CMP) alpha-2,3-sialyltransferase activity;

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