

Recombinant Human ST3GAL1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ST3GAL1-1528H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ST3GAL1 MS Standard C13 and N15-labeled recombinant protein (NP_003024) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	39.1 kDa
AA Sequence	MVTLRKRTLKVLTFVLFIFLTSSFFLNYSHTMVATTWFPKQMVLELSENLRLIKHRPC TCTHCIGQRKLSAWFDERFNQTMQPLLTAQNALLEDDTYRWWLRLQREKKPNNLN DTIKELFRVVPGNVDPMLEKRSVGCRRCAVVGNSGNLRESSYGPEIDSHDFVLRMN KAPTAGFEADVGTKTTHHLVYPESFRELGDNVSMILVPFKTIDLEWVVSAITTGTISHT YIPVPAKIRVKQDKILIYHPAFIKYVFDNWLQGHGRYPSTGILSVIFSMHVCDEVDLYG

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FGADSKGNWHHYWENNPSAGAFRKTGVHDADFESNVTATLASINKIRIFKGRTTRTR
PLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ST3GAL1 ST3 beta-galactoside alpha-2,3-sialyltransferase 1 [Homo sapiens (human)]

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; SIAT4-A; ST3Gal; alpha 2,3-ST 1; beta-galactoside alpha-2,3-sialyltransferase 1; Gal-beta-1,3-GalNAc-alpha-2,3-sialyltransferase; sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactosidase alpha-2,3-sialyltransferase); SIAT4A; ST3GalA; ST3GalIA; Gal-NAc6S; ST3GalIA,1; MGC9183; FLJ36548; DKFZp666E036; DKFZp779K2051;

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Gene ID	6482
mRNA Refseq	NM_003033
Protein Refseq	NP_003024
MIM	607187
UniProt ID	Q11201
SDS-PAGE	