

Active Recombinant Human ST3GAL1 Protein (AA 52-340), N-6×His/GFP tagged

Cat. No. ST3GAL1-05H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ST3GAL1 Protein (AA 52-340) with N-6×His/GFP tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	AA 52-340
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.
Bio-activity	≥0.95 μmol/min/mg
Molecular Mass	~70 kDa
AA Sequence	RLIKHRPCTCTHCIGQRKLSAWFDERFNQTMQPLLTAQNALLEDDTYRWWLRLQRE KKPNNLNDTIKELFRVPGNVDPMLEKRSVGCRRCAVVGNSGNLRESSYGPEIDSH

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DFVLRMNKAPTAGFEADVGTKTTHHLVYPESFRELGDNVSMILVPFKTIDLEWVVS
 TTGTISHTYIPVPAKIRVKQDKILIYHPAFIKYVFDNLQGHGRYPSTGILSVIFSMHVC
 DEVDLYGFGADSKGNWHHYWENNPSAGAFRKTGVHDADFESNVTATLASINKIRIF
 KGR

Purity

>95%, by SDS-PAGE under reducing conditions and visualized by Coomassie Blue stain.

Stability

6 months if stored at -80 centigrade. Avoid repeated freeze thaws.

Concentration

1 mg/mL

Storage Buffer

Supplied as a 0.2 µm filtered solution in 20mM HEPES pH 7.0 and 100mM NaCl buffer, with 10% Glycerol.

Preservative

0.05 % NaN₃

Shipping

This product is shipped as 0.2µm filtered product on dry ice.

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

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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;

Gene ID 6482

mRNA Refseq NM_003033

Protein Refseq NP_003024

MIM 607187

UniProt ID Q11201

SDS-PAGE

