

Active Recombinant Human ST3GAL1 Protein, HA-tagged

Cat. No. ST3GAL1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse myeloma cell line, NS0-derived human ST3 beta-Gal alpha-2,3-Sialyltransferase 1/ST3GAL1 protein Arg57-Arg340, with an N-terminal HA (YPYDVPDYA) tag
Species	Human
Source	Mammalian Cells
ProteinLength	57-340
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	Measured by its ability to transfer Neu5Ac from CMP-Neu5Ac to bovine B1-3 galactosyl-N-acetyl galactosamine. The specific activity is >1000 pmol/min/μg, as measured under the described conditions.
Molecular Mass	33.4 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

N-terminal Sequence Analysis	Tyr (of HA tag)
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>85% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris and NaCl.
Shipping	The product is shipped with dry ice or equivalent.

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; ST3O; SIAT4A; SIATFL; ST3GalA; ST3GalIA; Gal-NAc6S; ST3GalA.1; ST3GalIA,1; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase 1; Gal-beta-1,3-GalNAc-alpha-2,3-sialyltransferase; SIAT4-A; ST3Gal; alpha 2,3-ST 1; beta-galactoside alpha-2,3-sialyltransferase 1; sialyltransferase 4A (beta-galactosidase alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); EC 2.4.99.4

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA