

## Product datasheet for PH317696

### SIAT4A (ST3GAL1) (NM\_003033) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ST3GAL1 MS Standard C13 and N15-labeled recombinant protein (NP_003024)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217696
Predicted MW:	39.1 kDa
Protein Sequence:	>RC217696 protein sequence Red=Cloning site Green=Tags(s)

MVTLRKRTLKVLTFLLVLFIFLTSFFLNYSHTMVATTWFPKQMVLELSENLKRLIKHRPCTCTHCIGQRKL  
SAWFDERFNQTMQPLLTAQNALLEDDTYRWLRLQREKKPNLNDTIKELFRVVPGNVDPMLEKRSVGC  
RCAVVGNSGNLRESSYGPEIDSHDFVLRMKNKAPTAGFEADVGTKTTHHLVYPESFRELGDNVSMILV  
PFK TIDLEWVSAITGTISHTYIPVPAKIRVKQDKILYHPAFIKYVFDNWLQGHGRYPSTGILSVIFSMHV  
CDEVLDLYGFGADSKGNWHYHWHENNPSAGAFRKTGVHDADFESNVTATLASINKIRIFKGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003024</a>
RefSeq Size:	6971
RefSeq ORF:	1020
Synonyms:	1; Gal-NAc6S; SIAT4A; SIATFL; ST3GalA; ST3GalA.1; ST3GalIA; ST3O
Locus ID:	6482



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UniProt ID: [Q11201](#), [A0A024R9L6](#)

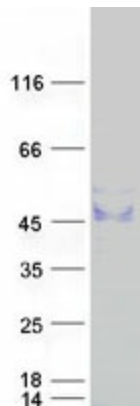
Cytogenetics: 8q24.22

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Secreted Protein, Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Keratan sulfate biosynthesis, Metabolic pathways, O-Glycan biosynthesis

### Product images:



Coomassie blue staining of purified ST3GAL1 protein (Cat# [TP317696]). The protein was produced from HEK293T cells transfected with ST3GAL1 cDNA clone (Cat# [RC217696]) using MegaTran 2.0 (Cat# [TT210002]).