

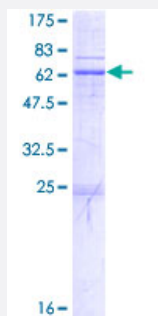
Full-Length

# ST3GAL1 (Human) Recombinant Protein (P01)

Catalog # H00006482-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human ST3GAL1 full-length ORF ( NP\_003024.1, 1 a.a. - 340 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MVTLRKRTLKVLTFVLFIFLTSSFFLNYSHTMVATTWFPKQMVLELSENLRKLIHRPCTCTHCIGQR  
KLSAWFDERFNQTMQPLLT AQNALLEDDTYRWWRLQREKKPNNLNDTIKELFRVVPGNVDPML  
EKRSVGCRRCAVVGNSGNLRESSYGPEIDSHDFVLRMNKAPTAGFEADVGTKTTHHLVYPEFR  
ELGDNVSMILVPFKTIDLEWVVSATITGTISHTYIPVPAKIRVKQDKILYHPAFIKYVFDNLQGHGRY  
PSTGILSVIFSMHVCDEVLDLYGFGADSKGNWHHYWENNPSAGAFRKTGVHDADFESNVATLASI  
NKIRIFKGR

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

65.5

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — ST3GAL1

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">6482</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GeneBank Accession# | <a href="#">NM_003033.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein Accession#  | <a href="#">NP_003024.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Name           | ST3GAL1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Alias          | DKFZp666E036, DKFZp779K2051, FLJ36548, Gal-NAc6S, MGC9183, SIAT4A, SIATFL, ST3GalA, ST3GalA.1, ST3GalIA, ST3GalIA.1, ST3O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Description    | ST3 beta-galactoside alpha-2,3-sialyltransferase 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Omim ID             | <a href="#">607187</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Summary        | <p>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]</p> |
| Other Designations  | CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase[Gal-beta-1,3-GalNAc-alpha-2,3-sialyltransferase alpha 2,3-ST[sialyltransferase 4A (beta-galactosidase alpha-2,3-sialyltransferase)]sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase)                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Pathway

- [Glycosphingolipid biosynthesis - ganglio series](#)
- [Glycosphingolipid biosynthesis - globo series](#)
- [Keratan sulfate biosynthesis](#)
- [Metabolic pathways](#)
- [O-Glycan biosynthesis](#)

## Disease

- [Bipolar Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)