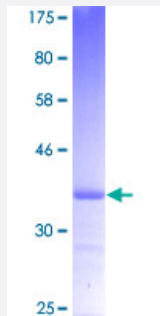


ST3GAL1 (Human) Recombinant Protein (Q01)

Catalog # H00006482-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ST3GAL1 partial ORF (NP_003024, 29 a.a. - 128 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SHTMVATTWFPKQMVLELSENKRLIKHRPCTCTHCIGQRKLSAWFDERFNQTMQPLLTAQNALL EDDTYRWWLRLQREKKPNNLNDTIKELFRVVPGNV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
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	6482
GeneBank Accession#	NM_003033
Protein Accession#	NP_003024
Gene Name	ST3GAL1
Gene Alias	DKFZp666E036, DKFZp779K2051, FLJ36548, Gal-NAc6S, MGC9183, SIAT4A, SIATFL, ST3G aIA, ST3GalA.1, ST3GalIA, ST3GalIA,1, ST3O
Gene Description	ST3 beta-galactoside alpha-2,3-sialyltransferase 1
Omim ID	607187
Gene Ontology	Hyperlink
Gene 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]
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](#)