

Product Information

MemDX™ Membrane Protein Human ST3GAL1 (ST3 beta-galactoside alpha-2,3-sialyltransferase 1) Full Length

Cat. No.: **MPC4185K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human ST3GAL1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ST3GAL1

Protein Length

Full length

Protein Class

Transferase

TMD

1

Sequence

MVTLRKRTLKVLTLFLVLFIFLTSFFLNYSHTMVATTWFPKQMVLELSEN
KRLIKHRPCTCTHCIGQRKLSAWFDERFNQTMQPLLTAQNALLEDDTYRW
WLRLQREKKPNLNDTIKELFRVPGNVDPMLEKRSVGCRRCAVVGNSGN
LRESSYGPEIDSHDFVLRMNKAPTAGFEADVGTKTTHHLVYPESFRELGD
NVSMILVPFKTIDLEWVVSATTTGTISHTYIPVPAKIRVKQDKILIYHPA
FIKYVFDNWLQGHGRYPSTGILSVIFSMHVCDEVLDYGFADSKGNWHHY
WENNPSAGAFRKTGVHDADFESNVTATLASINKIRIFKGR

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

ST3GAL1

Full Name

ST3 beta-galactoside alpha-2,3-sialyltransferase 1

Introduction

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.

Alternative Names

ST3GAL1; 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; ST3Gall; alpha 2,3-ST 1; beta-galactoside alpha-2,3-sialyltransferase 1; monosialoganglioside sialyltransferase; sialyltransferase 4A (beta-galactosidase alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); ST3 beta-galactoside alpha-2,3-sialyltransferase 1

Gene ID

[6482](#)

UniProt ID

[Q11201](#)