

Product Information

MemDX™ Membrane Protein Human GALNT4 (Polypeptide N-acetylgalactosaminyltransferase 4) Full Length

Cat. No.: **MPC2558K**

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

This product is a made-to-order Human GALNT4 membrane protein expressed in *Komagataella pastoris*. 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

GALNT4

Protein Length

Full length

Protein Class

Transferase

TMD

1

Sequence

MAVRWTWAGKSCLLLAFLTVAYIFVELLVSTFHASAGAGRARELGSRRLS
DLQKNTEDLSRPLYKKPPADSRALGEWGKASKLQLNEDELKQQEELIER
AINIYLSDRISLHRHIEDKRMYECKSQKFNYRTLPTTSVIIAFYNEAWST
LLRTIHSVLETSPAVLLKEIILVDDLSDRVYLKTQLETYISNLDRVRLIR
TNKREGLVRARLIGATFATGDVLTFLDCHCECNSGWLEPLLERIGRDETA
VVCPIVDITDWNTEFYMIGEPMIGGFDWRLTFQWHSVPKQERDRRISR
IDPIRSPTMAGGLFAVSKKYFQYLGTYDTGMEVWGGENLELSFRVWQCGG
KLEIHPCSHVGHVFPKRAPYARPNFLQNTARAAEVWMDEYKEHFYNRNPP
ARKEAYGDISERKLLRERLRCKSFDWYLKNVFPNLHVPEDRPGWHGAIRS
RGISSECLDYNPDNNPTGANLSLFGCHGQGGNQFFEYTSNKEIRFNSVT
ELCAEVPEQKNYVGMQNCPKDGFVPANIIWHFKEDGTIFHPHSGLCLSA
YRTPEGRPDVQMRTCDALDKNQIWSFEK

Product Description

Expression Systems

Komagataella pastoris

Tag

His tag at the C-terminus

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

GALNT4

Full Name

Polypeptide N-acetylgalactosaminyltransferase 4

Introduction

This gene encodes a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. GalNAc-Ts initiate mucin-type O-linked glycosylation in the Golgi apparatus by catalyzing the transfer of GalNAc to serine and threonine residues on target proteins. They are characterized by an N-terminal transmembrane domain, a stem region, a luminal catalytic domain containing a GT1 motif and Gal/GalNAc transferase motif, and a C-terminal ricin/lectin-like domain. GalNAc-Ts have different, but overlapping, substrate specificities and patterns of expression. In vitro, the encoded protein can complement other GalNAc-Ts in the complete O-glycosylation of the mucin-1 tandem repeat and can O-glycosylate the P-selectin glycoprotein ligand-1 molecule. The coding region of this gene is contained within a single exon. Fusion transcripts, which combine part of this gene with the 5' exons of the neighboring POC1B (POC1 centriolar protein homolog B) gene, also exist.

Alternative Names

GALNT4; GALNACT4; GALNAC-T4; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 4; UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4); polypeptide GalNAc transferase 4; pp-GaNTase 4; protein-UDP acetylgalactosaminyltransferase 4; Polypeptide N-acetylgalactosaminyltransferase 4

Gene ID

[8693](#)

UniProt ID

[Q8N4A0](#)