

Product Information

MemDX™ Membrane Protein Human GALNT1 (Polypeptide N-acetylgalactosaminyltransferase 1) Full Length

Cat. No.: **MPC3011K**

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

This product is a made-to-order Human GALNT1 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

GALNT1

Protein Length

Full length

Protein Class

Transferase

TMD

1

Sequence

MRKFAYCKVVLATSLIWVLLDMFLLLYFSECNKCDEKKERGLPAGDVLEP
VQKPHEGPGEMGKPVVIPKEDQEKMFKINQFNLMASEMIALNRSRPD
VRLEGCKTKVYPDNLPTTSVIVFHNEAWSTLLRTVHSVINSRPHMIEE
IVLVDDASERDFLKRPLESYVKKLKVPVHVIRMEQRSGLIRARLKGAAS
KGQVITFLDAHCECTVGWLEPLLARIKHDRRTVVCPIIDVISDDTFEYMA
GSDMTYGGFNWKLNFRWYPVQREMDRRKGDRTLPVRTPTMAGGLFSIDR
DYFQEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVGHVFRKAT
PYTFPGGTGQIINKNNRRLAEVWMDEFKNFFYIISPGVTKVDYGDSSRV
GLRHLKQCKPFSWYLENIYPDSQIPRHYFSLGEIRNVETNQCLDNMARKE
NEKVGIFNCHGMGGNQVFSYTANKEIRTDCLCLDVSKLNGPVTMLKCHHL
KGNQLWEYDPVKLTQHVNSNQCLDKATEEDSQVPSIRDCNGSRSQQWLL
RNVTLPEIF

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

GALNT1

Full Name

Polypeptide N-acetylgalactosaminyltransferase 1

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. Transcript variants derived from this gene that utilize alternative polyA signals have been described in the literature.

Alternative Names

GALNT1; GALNAC-T1; GalNAc transferase 1; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 1; UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1); polypeptide GalNAc transferase 1; pp-GaNTase 1; protein-UDP acetylgalactosaminyltransferase 1; Polypeptide N-acetylgalactosaminyltransferase 1

Gene ID

[2589](#)

UniProt ID

[Q10472](#)