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Product Information

MemDX™ Membrane Protein Human B4GALT6 (Beta-1,4-galactosyltransferase 6) Full Length

Cat. No.: **MPC2827K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human B4GALT6 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
B4GALT6

Protein Length
Full length

Protein Class
Transferase

TMD
1

Sequence
MSVLRRMMRVSNRSLLAFIFFFSLSSSCLYFIYVAPGIANTYLFMVQARG
IMLRENVKTIGHMIRLYTNKNSTLNGTDYPEGNNSSDYLVQTTTYLPENF
TYSPYLPCPEKLPYMRGFLNVNVSEVSFDEIHQLFSKDLDIEPGGHWRPK
DCKPRWKVAVLIPFRNRHEHLPIFFLHLIPMLQKQRLEFAFYVIEQTGTQ
PFNRAMLFNVGFKEAMKDSVWDCVIFHDVDHLPENDRNYYGCGEMPRHFA
AKLDKYMYILPYKEFFGGVSGLTVEQFRKINGFPNAFWGWGGEDDDLWNR
VHYAGYNVTRPEGDLGKYKSIPHHHRGEVQFLGRYKLLRYSKERQYIDGL
NNLIYRPKILVDRLYTNISVNLMPELAPIEDY

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

B4GALT6

Full Name

Beta-1,4-galactosyltransferase 6

Introduction

This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes in human. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. This gene produces multiple protein isoforms - some of which are predicted to lack the N-terminal hydrophobic signal sequence and transmembrane domain. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The canonical enzyme encoded by this gene is a lactosylceramide synthase important for glycolipid biosynthesis.

Alternative Names

B4GALT6; B4Gal-T6; beta4Gal-T6; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 6; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6; UDP-Gal:glucosylceramide beta-1,4-galactosyltransferase; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 6; beta-1,4-GalTase 6; beta4GalT-VI; glucosylceramide beta-1,4-galactosyltransferase; lacCer synthase; lactosylceramide synthase; Beta-1,4-galactosyltransferase 6

Gene ID

9331

UniProt ID

Q9UBX8