

Product Information

MemDX™ Membrane Protein Human FUT3 (Fucosyltransferase 3 (Lewis blood group)) Full Length

Cat. No.: **MPC3504K**

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

This product is a made-to-order Human FUT3 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

FUT3

Protein Length

Full length

Protein Class

Transferase

TMD

1

Sequence

MDPLGAAKPQWPWRRCLAALLFQLLVAVCFFSYLRVSRDDATGSPRAPSG
SSRQDTTPTRPTLLILLWTWPFHIPVALSRCSEMVPGTADCHITADRKVY
PQADTVIVHHWDIMSNPKSRLPPSPRPQGQRWIWFNLEPPPNCQHLEALD
RYFNLTMYSRSDSDIFTPYGWLEPWGQPAHPPLNLSAKTELVAWAVSNW
KPDSARVRYYYQSLQAHLKVDVYGRSHKPLPKGTMMETLSRYKFYLAFENS
LHPDYITEKLWRNALEAWVPVVLGPSRSNYERFLPPDAFIHVDDFQSPK
DLARYLQELDKDHARYLSYFRWRETLRPRSFSWALDFCKACWKLQQESRY
QTVRSIAAWFT

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**

FUT3

Full Name

Fucosyltransferase 3 (Lewis blood group)

Introduction

The Lewis histo-blood group system comprises a set of fucosylated glycosphingolipids that are synthesized by exocrine epithelial cells and circulate in body fluids. The glycosphingolipids function in embryogenesis, tissue differentiation, tumor metastasis, inflammation, and bacterial adhesion. They are secondarily absorbed to red blood cells giving rise to their Lewis phenotype. This gene is a member of the fucosyltransferase family, which catalyzes the addition of fucose to precursor polysaccharides in the last step of Lewis antigen biosynthesis. It encodes an enzyme with alpha(1,3)-fucosyltransferase and alpha(1,4)-fucosyltransferase activities. Mutations in this gene are responsible for the majority of Lewis antigen-negative phenotypes. Differences in the expression of this gene are associated with host susceptibility to viral infection.

Alternative Names

FUT3; LE; Les; FT3B; CD174; FucT-III; 3-galactosyl-N-acetylglucosaminide 4-alpha-L-fucosyltransferase FUT3; Lewis FT; alpha-(1,3/1,4)-fucosyltransferase; alpha-3-fucosyltransferase FUT3; blood group Lewis alpha-4-fucosyltransferase; fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group); fucosyltransferase III; galactoside 3(4)-L-fucosyltransferase; truncated fucosyltransferase 3; Fucosyltransferase 3 (Lewis blood group)

Gene ID

[2525](#)

UniProt ID

[P21217](#)