

Recombinant Human MUC12 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50686

Size: 10ug, 100ug

Protein Name: Mucin-12 (MUC-12) (Mucin-11) (MUC-11)

Synonym: MUC12, MUC11

UniProt ID: Q9UKN1

UniProt Link: www.uniprot.org/uniprotkb/Q9UKN1/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 5478 AA

Molecular Weight: 558 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLVIWILTLALRLCASVTTVTPEGS AVHKAISQQGTLWTGEVLEKQTVEQGKSTLRRQKNHFHRSAG
ELRCRNALKDEGASAGWSVMFAGESVVVLVHLWMTGARVKNLGLVEFASPGDDGDGRAEGFSLG
LPLSEQARAAGAREKERQETVINHSTFSGFSQITGSTVNTSIGGNTTSASTPSSSDPFTTFSDYGVSV
TFITGSTATKHFLDSSTNSGHSEESTVSHSGPGATGTTLFPSHSATSVFVGEPKTSPTSASMETTAL
PGSTTTAGLSEKSTTFYSSPRSPDRTLSPARTTSSGVSEKSTTSHSRPGPTHIAFPDSTTMPGVVSQ
ESTASHSIPGSTDTTLSPGTTTTSSLGPESTTFHSSPGYTKTTRLPDNTTSSGLLEASTPVHSSTGSP
HTTLPSSSTTHEGEPTTFQSWPSSKDTSPAPSGTTSAFVKLSTTYHSSPSSTPTTHFSASSTTLGH
SEESTPVHSSPVATATPPPARSATSGHVEESTAYHRSPGSTQTMHFPESSTTSGHSEESATFHGS
THTKSSTPSTTAALAHTSYHSSLGSTETTHFRDSSSTISGRSEESKASHSSPDAMATTVLPAGSTPSV
LVGDSTPSPISSGSMETTALPGSTTKPGLSEKSTTFYSSPRSPDTHLPASMTSSGVSEESTTSHSR
PGSTHTTAFFPGSTTMPGLSQESTASHSSPGPTDTTLSPGSTTASSLGPEYTTFHSRPGSTETTLTPD
NTTASGLLEASMPVHSSTRSPHTTLSPAGSTTRQGESTTFHSWPSSKDTRPAPPTTTSAFVEPSTTS
HGSPSSIPTTHISARSTTSSGLVEESTTYHSSPGSTQTMHFPESDTTSGRGEESTTSHSSTHTTISSAP
STTSALVEEPTSYHSSPGSTATTHFPDSSTTSGRSEESTASHSSQDATGTIVLPARSTTSVLLGESTT
SPISSGSMETTALPGSTTTPLSERSTTFHSSPRSPATTLSPASTTSSGVSEESTTSRSPRGSTHTTA
FPDSTTTPLSLRHSTTSHSSPGSTDITLLPASTTTSGPSQESTTSHSSSGSTDITLSPGSTTALSFG
QESTTFHSNPGSTHTTLFPDSTTSSGIVEASTRVHSSTGSPRTTLSPASSTSPGLQGESTAFQTHPA
STHTTPSPSTATAPVEESTTYHRSPGSTPTTHFPASSTTSGHSEKSTIFHSSPDASGTTTPSSAHSTT
SGRGESTTSRISPGSTEITTLPGSTTTPLGLSEASTTFYSSPRSPTTTTLPASMTSLGVGEESTTSRSQ



PGSTHSTVSPASTTTT PGLSEESTTVYSSSRGSTETTTFPHSTTTSVHGEEPTTFHSRPASTHTTLFTE
DSTTSGLTEESTA FPGSPASTQTGLPATLTTADLGEESTTFPSSSGSTGTLKSPARSTTSGLVGEST
PSRLSPSSTETTTT LPGSPTT PSLSEKSTTFYTSPRSPDATLSPATTTSSGVSEESSTSHSQPGSTHTT
AFPDSTTTSDLSQEPTTSHSSQGSTEATLSPGSTTASSLGQQSTTFHSSPGDTE TLLPDDTITSGLV
EASTPTHSSSTGSLHTTLTPASSTSAGLQEESTTFQSWPSSSDTTPSPPGTTAAPVEVSTTYHSRPSS
TPTTHFSASSTTLGRSEESTTVHSSPGATGTALFPTRSATSVLVGEPTTSPISSGSTETTALPGSTTT
AGLSEKSTTFYSSPRSPDTTLSPASTTSSGVSEESTTSHSRPGSTHTTA FPGSTTMPGVSQESTASH
SSPGSTD TTLSPGSTTASSLGPESTTFHSSPGSTETTLLPDNTTASGLLEASTPVHSSTGSPHTTLSP
AGSTTRQGESTTFQSWPSSKDTMPAPTTTTSAFVELSTTSHGSPSSPTTHFSASSTTLGRSEESTT
VHSSPVATATTPSPARSTTSGLVEESTAYHSSPGSTQTMHFESSTASGRSEESRTSHSSTHTTIS
PPSTTSALVEEPTSYHSSPGSTATTHFPDSSSTSGRSEESTASHSSQDATGTIVL PARSTTSVLLGES
TTSPISSGSMETTALPGSTTT PGLSEKSTTFHSSPRSPATTLSPASTTSSGVSEESTTSHSRPGSTHT
TAFPDSTTT PGLSRHSTTSHSSPGSTD TLLPASTTTSGPSQESTTSHSSPGSTD TALSPGSTTALS F
GQESTTFHSSPGSTHTTLFPDSTTSSGIVEASTRVHSSTGSPRTTLSPASSTSPGLQGESTAFQTHP
ASTHTTTPSPPPSTATAPVEESTTYHRSPGSTPTTHFPASSTTSGHSEKSTIFHSSPDASGTT PSSAHST
TSGRGESTTSRISPGSTEITTLPGSTTT PGLSEASTTFYSSPRSP TTTLSPASMTSLGVGEESTTSRS
QPGSTHSTVSPASTTT PGLSEESTTVYSSSPGSTETTTFPRPTTTSVRGEEPTTFHSRPASTHTTLFT
EDSTTSGLTEESTA FPGSPASTQTGLPATLTTADLGEESTTFPSSSGSTGTTLSPARSTTSGLVGEST
PSRLSPSSTETTTT LPGSPTT PSLSEKSTTFYTSPRSPDATLSPATTTSSGVSEESSTSHSQPGSTHTT
AFPDSTTT PGLSRHSTTSHSSPGSTD TLLPASTTTSGPSQESTTSHSSPGSTD TALSPGSTTALS F
GQESTTFHSSPGSTHTTLFPDSTTSSGIVEASTRVHSSTGSPRTTLSPASSTSPGLQGESTTFQTHP
ASTHTTTPSPPPSTATAPVEESTTYHRSPGSTPTTHFPASSTTSGHSEKSTIFHSSPDASGTT PSSAHST
TSGRGESTTSRISPGSTEITTLPGSTTT PGLSEASTTFYSSPRSP TTTLSPASMTSLGVGEESTTSRS
QPGSTHSTVSPASTTT PGLSEESTTVYSSSPGSTETTTFPRSTTTSVRGEEPTTFHSRPASTHTTLFT
EDSTTSGLTEESTA FPGSPASTQTGLPATLTTADLGEESTTFPSSSGSTGTTLSPARSTTSGLVGEST
PSRLSPSSTETTTT LPGSPTT PSLSEKSTTFYTSPRSPDATLSPATTTSSGVSEESSTSHSQPGSTHTT
AFPDSTTTSGLSQEPTASHSSQGSTEATLSPGSTTASSLGQQSTTFHSSPGDTE TLLPDDTITSGLV
EASTPTHSSSTGSLHTTLTPASSTSAGLQEESTTFQSWPSSSDTTPSPPGTTAAPVEVSTTYHSRPSS
TPTTHFSASSTTLGRSEESTTVHSSPGATGTALFPTRSATSVLVGEPTTSPISSGSTETTALPGSTTT
AGLSEKSTTFYSSPRSPDTTLSPASTTSSGVSEESTTSHSRPGSTHTTA FPGSTTMPGVSQESTASH
SSPGSTD TTLSPGSTTASSLGPESTTFHSGPGSTETTLLPDNTTASGLLEASTPVHSSTGSPHTTLSP
AGSTTRQGESTTFQSWPNSKDTTPAPTTTTSAFVELSTTSHGSPSSPTTHFSASSTTLGRSEESTT
VHSSPVATATTPSPARSTTSGLVEESTTYHSSPGSTQTMHFESDTTSGRGEESTTSHSSTHTTIS
APSTTSALVEEPTSYHSSPGSTATTHFPDSSSTSGRSEESTASHSSQDATGTIVL PARSTTSVLLGES
TTSPISSGSMETTALPGSTTT PGLSEKSTTFHSSPRSPATTLSPASTTSSGVSEESTTSHSRPGSTHT
TAFPDSTTT PGLSRHSTTSHSSPGSTD TLLPASTTTSGSSQESTTSHSSSGSTD TALSPGSTTALS F
GQESTTFHSSPGSTHTTLFPDSTTSSGIVEASTRVHSSTGSPRTTLSPASSTSPGLQGESTAFQTHP
ASTHTTTPSPPPSTATAPVEESTTYHRSPGSTPTTHFPASSTTSGHSEKSTIFHSSPDASGTT PSSAHST
TSGRGESTTSRISPGSTEITTLPGSTTT PGLSEASTTFYSSPRSP TTTLSPASMTSLGVGEESTTSRS
QPGSTHSTVSPASTTT PGLSEESTTVYSSSPGSTETTTFPRSTTTSVRREEPTTFHSRPASTHTTLFT
EDSTTSGLTEESTA FPGSPASTQTGLPATLTTADLGEESTTFPSSSGSTGTLKSPARSTTSGLVGES
TPSRLSPSSTETTTT LPGSPTT PSLSEKSTTFYTSPRSPDATLSPATTTSSGVSEESSTSHSQPGSTHT
TAFPDSTTTSGLSQEPTTSHSSQGSTEATLSPGSTTASSLGQQSTTFHSSPGDTE TLLPDDTITSGL
VEASTPTHSSSTGSLHTTLTPASSTSTGLQEESTTFQSWPSSSDTTPSPPSTTAVPVEVSTTYHSRPS
STPTTHFSASSTTLGRSEESTTVHSSPGATGTALFPTRSATSVLVGEPTTSPISSGSTETTALPGSTT
TAGLSEKSTTFYSSPRSPDTTLSPASTTSSGVSEESTTSHSRPGSMHTTAFPSSTTMPGVSQESTAS
HSSPGSTD TTLSPGSTTASSLGPESTTFHSSPGSTETTLLPDNTTASGLLEASTPVHSSTGSPHTTLSP
PAGSTTRQGESTTFQSWPNSKDTTPAPTTTTSAFVELSTTSHGSPSSPTTHFSASSTTLGRSEEST
TVHSSPVATATTPSPARSTTSGLVEESTTYHSSPGSTQTMHFESNTTSGRGEESTTSHSSTHTTIS
SAPSTTSALVEEPTSYHSSPGSTATTHFPDSSSTSGRSEESTASHSSQDATGTIVL PARSTTSVLLGE
STTSPISSGSMETTALPGSTTT PGLSEKSTTFHSSPSSTPTTHFSASSTTLGRSEESTTVHSSPVATA
TTPSPARSTTSGLVEESTAYHSSPGSTQTMHFESSTASGRSEESRTSHSSTHTTISPPSTTSALV
EEPTSYHSSPGSIATTHFPESSTTSGRSEESTASHSSPD TNGITPLPAHFTTSGRIAESTTFYISPGSM
ETTLASTATTPGLSAKSTILYSSSRSPDQTLSPASMTSSSISGEPTSLYSQAESTHTTAFPASTTTSGL
SQESTTFHSKPGSTETT LSPGSITTSFAQEFTT PHSQPGSALSTVSPASTTV PGLSEESTTFYSSPG
STETTAFSHSNTMSIHSQQSTPFPDSPGFTHVLPATLTTT DIGQESTAFHSSSDATGTTPLPARSTA
SDLVGEPTTFYISPSPTYTTLPASSSTSGLTEESTTFHTSPSFTSTIVSTESLET LAPGLCQEGQIWN
GKQCVCPQGYVGYQCLSPLESFPVETPEKLNATLGMTVKV TYRNFTEKMNDASSQEYQNFSTLFKN



RMDVVLKGDNLPPQYRGVNIRLLNGSIVVKNDVILEADYTLLEYEELFENLAEIVKAKIMNETRTTLLDP
DSCRKAILCYSEEDTFVDSSVTPGFDFQEQTQKAAEGYTQFYVDVLDGKLACVNKCTKGTKSQM
NCNLGTCQLQRSGPRCLCPNTNTHWYWGETCEFNIKSLVYGIVGAVMAVLLLALIILFSLSQKR
HREQYDVPQEWKEGTPGIFQKTAIWEDQNLRESRFGLENAYNNFRPTLETVDSGTELHIQRPEMV
ASTV

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Mucin-12 (MUC-12) (Mucin-11) (MUC-11) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Involved in epithelial cell protection, adhesion modulation, and signaling. May be involved in epithelial cell growth regulation. Stimulated by both cytokine TNF and TGF-beta in intestinal epithelium.

Subcellular Localization: Membrane ; Single-pass type I membrane protein .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.