Protein LYRIC (MTDH) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein LYRIC (MTDH), Recombinant Protein
Full Product Name	Recombinant Human Protein LYRIC (MTDH), partial
Product Gene Name	MTDH recombinant protein
Product Synonym Gene Name	MTDH
Sequence	G WAAACAGARK KRRSPPRKRE EAAAVPAAAP DDLALLKNLR SEEQKKKNRK KLSEKPKPNG RTVEVAEGEA VRTPQSVTAK QPPEIDKKNE KSKKNKKKSK SDAKAVQNSS RHDGKEVDEG AWETKISHRE KRQQRKRDKV LTDSGSLDST IPGIENTITV TTEQLTTASF PVGSKKNKGD SHLNVQVSNF KSGKGDSTLQ VSSGLNENLT VNGGGWNEKS VKLSSQISAG EEKWNSVSPA SAGKRKTEPS AWSQDTGDAN TNGKDWGRSW SDRSIFSGIG STAEPVSQST TSDYQWDVSR NQPYIDDEWS GLNGLSSADP NSDWNAPAEE WGNWVDEERA SLLKSQEPIP DDQKVSDDDK EKGEGALPTG KSKKKKKKKK KQGEDNSTAQ DTEELEKEIR EDLPVNTSKT RPKQEKAFSL KTISTSDPAE VLVKNSQPIK TLPPATSTEP SVILSKSDSD KSSSQVPPIL QETDKSKSNT KQNSVPPSQT KSETSWESPK QIKKKKKARR ET
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	63,837 Da
Sequence Positions	70-582
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	610323
3D Structure	ModBase 3D Structure for Q86UE4
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MTDH recombinant protein	MBS1377943 is a recombinant protein targeting MTDH. Also known as Recombinant Human Protein LYRIC (MTDH), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MTDH recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTDH. It may not necessarily be applicable to this product.

NCBI GI #	223555917
NCBI GeneID	92140

NCBI Accession #	NP_848927.2
UniProt Primary Accession #	Q86UE4
UniProt Secondary Accession #	Q05DH2; Q52QU9; Q6PK07; Q8TCX3
UniProt Related Accession #	Q86UE4
GenBank Nucleotide #	NM_178812.3
NCBI Official Full Name	protein LYRIC
NCBI Official Synonym Full Names	metadherin
NCBI Official Symbol	MTDH
NCBI Official Synonym Symbols	3D3; AEG1; AEG-1; LYRIC; LYRIC/3D3
UniProt Protein Name	Protein LYRIC
UniProt Synonym Protein Names	3D3/LYRIC; Astrocyte elevated gene-1 protein; AEG-1; Lysine-rich CEACAM1 co-isolated protein; Metadherin; Metastasis adhesion protein
Protein Family	Protein LYRIC
UniProt Gene Name	MTDH
UniProt Synonym Gene Names	AEG1; LYRIC; AEG-1
NCBI Protein Information	protein LYRIC
UniProt Comments for MTDH	Downregulates SLC1A2/EAAT2 promoter activity when expressed ectopically. Activates the nuclear factor kappa-B (NF-kappa-B) transcription factor. Promotes anchorage-independent growth of immortalized melanocytes and astrocytes which is a key component in tumor cell expansion. Promotes lung metastasis and also has an effect on bone and brain metastasis, possibly by enhancing the seeding of tumor cells to the target organ endothelium. Induces chemoresistance.
Research Articles on MTDH	**1.** Findings clearly demonstrate that miR-320a suppresses breast cancer metastasis by directly inhibiting MTDH expression. The present study provides a new insight into anti-oncogenic roles of miR-320a.
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