Transcription Factor Mafa (MAFA) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor MafA (MAFA), Recombinant Protein
Full Product Name	Recombinant Human Transcription factor MafA (MAFA)
Product Gene Name	MAFA recombinant protein
Product Synonym Gene Name	MAFA
Sequence	RFSDDQLVSM SVRELNRQLR GFSKEEVIRL KQKRRTLKNR GYAQSCRFKR VQQRHILESE KCQLQSQVEQ LKLEVGRLAK ERDLYKEKYE KLA
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	36,982 Da
Sequence Positions	226-318aa; Partial
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	610303
3D Structure	ModBase 3D Structure for Q8NHW3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MAFA recombinant protein	MBS1322840 is a recombinant protein targeting MAFA. Also known as Recombinant Human Transcription factor MafA (MAFA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MAFA 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 MAFA. It may not necessarily be applicable to this product.

NCBI GI #	71274111
NCBI GeneID	389692
NCBI Accession #	NP_963883.2
UniProt Primary Accession #	Q8NHW3
UniProt Related Accession #	Q8NHW3

GenBank Nucleotide #	NM_201589.3
NCBI Official Full Name	transcription factor MafA
NCBI Official Synonym Full Names	MAF bZIP transcription factor A
NCBI Official Symbol	MAFA
NCBI Official Synonym Symbols	hMafA; RIPE3b1
UniProt Protein Name	Transcription factor MafA
UniProt Synonym Protein Names	Pancreatic beta-cell-specific transcriptional activator; Transcription factor RIPE3b1; V-maf musculoaponeurotic fibrosarcoma oncogene homolog A
Protein Family	Transcription factor
UniProt Gene Name	MAFA
NCBI Protein Information	transcription factor MafA
NCBI Summary for MAFA	MAFA is a transcription factor that binds RIPE3b, a conserved enhancer element that regulates pancreatic beta cell-specific expression of the insulin gene (INS; MIM 176730) (Olbrot et al., 2002 [PubMed 12011435]).[supplied by OMIM, Mar 2008]
UniProt Comments for MAFA	Acts as a transcriptional factor. Specifically binds the insulin enhancer element RIPE3b and activates insulin gene expression. Cooperates synergistically with NEUROD1 and PDX1. Phosphorylation by GSK3 increases its transcriptional activity and is required for its oncogenic activity. Involved either as an oncogene or as a tumor suppressor, depending on the cell context.
Research Articles on MAFA	**1.** Pdx1 and MafA play crucial roles in the pancreas and maintain mature beta-cell function. Our results showed that the expression of Pdx1 and MafA were significantly upregulated after a sleeve gastrectomy for morbid obesity.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/transcription-factor-mafa-mafa/1322840