ME1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	ME1, Blocking Peptide
Full Product Name	ME1 Peptide - C-terminal region
Product Gene Name	ME1 blocking peptide
Product Synonym Gene Name	MES; HUMNDME; ME1
Sequence	Synthetic peptide located within the following region: NPTSKAECSA EQCYKITKGR AIFASGSPFD PVTLPNGQTL YPGQGNNSYV
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	ME1 peptide (MBS3244638) is used for blocking the activity of ME1 antibody (MBS3219774)
Molecular Weight	62kDa
OMIM	154250
Product Categories/Family for ME1 blocking peptide	Peptide
Related Product Information for ME1 blocking peptide	This gene encodes a cytosolic, NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis. The activity of this enzyme, the reversible oxidative decarboxylation of malate, links the glycolytic and citric acid cycles. The regulation of expression for this gene is complex. Increased expression can result from elevated levels of thyroid hormones or by higher proportions of carbohydrates in the diet.
Other Notes	Small volumes of ME1 blocking peptide 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.
Searchable Terms for ME1 purchase	MBS3244638 is a blocking peptide targeting ME1. Also known as ME1 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ME1. It may not necessarily be applicable to this product.

NCBI GI #	4505143
NCBI GeneID	4199
NCBI Accession #	NP_002386
UniProt Primary Accession #	P48163
UniProt Related Accession #	P48163
GenBank Nucleotide #	NM_002395.6
NCBI Official Full Name	NADP-dependent malic enzyme
NCBI Official Synonym Full Names	malic enzyme 1
NCBI Official Symbol	ME1

NCBI Official Synonym Symbols	MES; HUMNDME
UniProt Protein Name	NADP-dependent malic enzyme
UniProt Synonym Protein Names	Malic enzyme 1
Protein Family	NADP-dependent malic enzyme
UniProt Gene Name	ME1
UniProt Synonym Gene Names	NADP-ME
UniProt Entry Name	MAOX_HUMAN
NCBI Protein Information	NADP-dependent malic enzyme
UniProt Comments for ME1	ME1: a ubiquitous lipogenic enzyme of the malic enzymes family. Converts (S)-malate + NADP+ ?? pyruvate + CO2 + NADPH. Levels of ME1 and ATP-citrate lyase mRNA, another lipogenic enzyme, are coordinately increased 5-7 fold during the differentiation of 3T3-L1 preadipocytes into adipocytes. Up-regulated by short-term dietary restriction in mice. The cycling of pyruvate by ME1 generates cytosolic NADPH, whereas mitochondrial ME2 responds to elevated amino acids and serves to supply sufficient pyruvate for increased Krebs cycle flux when glucose is limiting. Protein type: Carbohydrate Metabolism - pyruvate; EC 1.1.1.40; Oxidoreductase Chromosomal Location of Human Ortholog: 6q12 Cellular Component: mitochondrion; cytosol Molecular Function: malate dehydrogenase (decarboxylating) activity; malic enzyme activity; electron carrier activity; manganese ion binding; malate dehydrogenase (oxaloacetate-decarboxylating) (NADP+) activity; NADP binding; ADP binding; NAD binding; oxaloacetate decarboxylase activity Biological Process: malate metabolic process; carbohydrate metabolic process; response to hormone stimulus; cellular lipid metabolic process; NADP biosynthetic process; protein tetramerization; response to carbohydrate stimulus
Research Articles on ME1	**1.** Bioinformatics analysis identified that miR612 targeted ME1, which expression was high and inversely associated with miR612 expression in bladder cancer tissues.
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/human-blocking-peptide/me1/3244638