Protein ETHE1, Mitochondrial (ETHE1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein ETHE1, mitochondrial (Ethe1), Recombinant Protein
Full Product Name	Recombinant Mouse Protein ETHE1, mitochondrial (Ethe1)
Product Gene Name	Ethe1 recombinant protein
Product Synonym Gene Name	Ethe1
Sequence	VAGRRLSQQS ASGAPVLLRQ MFEPKSCTYT YLLGDRESRE AVLIDPVLET AHRDAQLIKE LGLKLLYAVN THCHADHITG TGVLRSLLPG CQSVISRLSG AQADLHIGEG DSIRFGRFAL ETRASPGHTP GCVTFVLNDQ SMAFTGDALL IRGCGRTDFQ QGCAKTLYHS VHEKIFTLPG NCLIYPAHDY HGLTVSTVEE ERTLNPRLTL SCEEFIKVMD NLNLPKPQQI DIAVPANMRC GVQTPPS
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	27,739 Da
Sequence Positions	8-254, full length protein
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.
3D Structure	ModBase 3D Structure for Q9DCM0
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ethe1 recombinant protein	MBS1320657 is a recombinant protein targeting Ethe1. Also known as Recombinant Mouse Protein ETHE1, mitochondrial (Ethe1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Ethe1 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 Ethe1. It may not necessarily be applicable to this product.

NCBI GI #	12963539
NCBI GeneID	66071
NCBI Accession #	NP_075643.1
UniProt Primary Accession #	Q9DCM0
UniProt Secondary Accession #	Q9ESL5

UniProt Related Accession #	Q9DCM0
GenBank Nucleotide #	NM_023154.3
NCBI Official Full Name	persulfide dioxygenase ETHE1, mitochondrial
NCBI Official Synonym Full Names	ethylmalonic encephalopathy 1
NCBI Official Symbol	Ethe1
NCBI Official Synonym Symbols	Hsco; 0610025L15Rik
UniProt Protein Name	Persulfide dioxygenase ETHE1, mitochondrial
UniProt Synonym Protein Names	Ethylmalonic encephalopathy protein 1 homolog; Hepatoma subtracted clone one protein; Sulfur dioxygenase ETHE1
Protein Family	Persulfide dioxygenase
UniProt Gene Name	Ethe1
UniProt Synonym Gene Names	Hsco
NCBI Protein Information	persulfide dioxygenase ETHE1, mitochondrial
UniProt Comments for Ethe1	First described as a protein that can shuttle between the nucleus and the cytoplasm and suppress p53-induced apoptosis by sequestering the transcription factor RELA/NFKB3 in the cytoplasm and preventing its accumulation in the nucleus (). Sulfur dioxygenase that plays an essential role in hydrogen sulfide catabolism in the mitochondrial matrix. Hydrogen sulfide (H2S) is first oxidized by SQRDL, giving rise to cysteine persulfide residues. ETHE1 consumes molecular oxygen to catalyze the oxidation of the persulfide, once it has been transferred to a thiophilic acceptor, such as glutathione (R-SSH). Plays an important role in metabolic homeostasis in mitochondria by metabolizing hydrogen sulfide and preventing the accumulation of supraphysiological H2S levels that have toxic effects, due to the inhibition of cytochrome c oxidase.
Research Articles on Ethe1	**1.** Ethe1 deficiency disrupts post translational amino acid modification and mitochondrial metabolic systems.
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/protein-ethe1-mitochondrial-ethe1/1320657