Neprilysin (MME) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Neprilysin (Mme), Recombinant Protein
Full Product Name	Recombinant Mouse Neprilysin (Mme), partial
Product Gene Name	Mme recombinant protein
Product Synonym Gene Name	Mme
Sequence	YDDGICKSS DCIKSAARLI QNMDASVEPC TDFFKYACGG WLKRNVIPET SSRYSNFDIL RDELEVILKD VLQEPKTEDI VAVQKAKTLY RSCINESAID SRGGQPLLKL LPDIYGWPVA SDNWDQTYGT SWTAEKSIAQ LNSKYGKKVL INFFVGTDDK NSTQHIIHFD QPRLGLPSRD YYECTGIYKE ACTAYVDFMI SVARLIRQEQ SLPIDENQLS LEMNKVMELE KEIANATTKP EDRNDPMLLY NKMTLAKLQN NFSLEVNGKS FSWSNFTNEI MSTVNINIQN EEEVVVYAPE YLTKLKPILT KYSPRDLQNL MSWRFIMDLV SSLSRNYKES RNAFRKALYG TTSETATWRR CANYVNGNME NAVGRLYVEA AFAGESKHVV EDLIAQIREV FIQTLDDLTW MDAETKKKAE EKALAIKERI GYPDDIISNE NKLNNEYLEL NYREDEYFEN IIQNLKFSQS KQLKKLREKV DKDEWISGAA VVNAFYSSGR NQIVFPAGIL QPPFFSAQQS NSLNYGGIGM VIGHEITHGF DDNGRNFNKD GDLVDWWTQQ SANNFKDQSQ CMVYQYGNFS WDLAGGQHLN GINTLGENIA DNGGIGQAYR AYQNYVKKNG EEKLLPGLDL NHKQLFFLNF AQVWCGTYRP EYAVNSIKTD VHSPGNFRII GTLQNSAEFA DAFHCRKNSY MNPERKCRVW
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	85,702 Da
Sequence Positions	52-750
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 Q61391
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mme recombinant protein	This gene encodes a common acute lymphocytic leukemia antigen that is an important cell surface marker in the identification of human acute lymphocytic leukemia (ALL). This protein is present on leukemic cells of pre-B phenotype, which represent 85% of cases of ALL. This protein is not restricted to leukemic cells, however, and is found on a variety of normal tissues. It is a glycoprotein that is particularly abundant in kidney, where it is present on the brush border of proximal tubules and on glomerular epithelium. The protein is a neutral endopeptidase that cleaves peptides at the amino side of hydrophobic residues and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, and bradykinin. This gene, which encodes a 100-kD type II transmembrane glycoprotein, exists in a single copy of greater than 45 kb. The 5 untranslated region of this gene is alternatively spliced, resulting in four separate mRNA transcripts. The coding region is not affected by alternative splicing.
Other Notes	Small volumes of Mme 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.

Searchable Terms for Mme purchase	MBS1394789 is a recombinant protein targeting Mme. Also known as Recombinant Mouse Neprilysin (Mme), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	575403040
NCBI GeneID	17380
NCBI Accession #	NP_001276391.1
UniProt Primary Accession #	Q61391
UniProt Secondary Accession #	Q6NXX5; Q8K251
UniProt Related Accession #	Q61391
GenBank Nucleotide #	NM_001289462.1
NCBI Official Full Name	neprilysin
NCBI Official Synonym Full Names	membrane metallo endopeptidase
NCBI Official Symbol	Mme
NCBI Official Synonym Symbols	NEP; SFE; CD10; CALLA; C85356; 6030454K05Rik
UniProt Protein Name	Neprilysin
UniProt Synonym Protein Names	Atriopeptidase; Enkephalinase; Neutral endopeptidase 24.11; NEP; Neutral endopeptidase; Skin fibroblast elastase; SFE; CD_antigen: CD10
Protein Family	Neprilysin
UniProt Gene Name	Mme
UniProt Synonym Gene Names	NEP; Neutral endopeptidase; SFE
NCBI Protein Information	neprilysin
UniProt Comments for Mme	Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF) (). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers (PubMed:20876573).
Research Articles on Mme	**1.** results indicate that NEP accelerates adipogenesis through enhancement of insulin-mediated PI3K-Akt activation and imply a high therapeutic value of NEP in treating obesity and obesity-related disorders.
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