

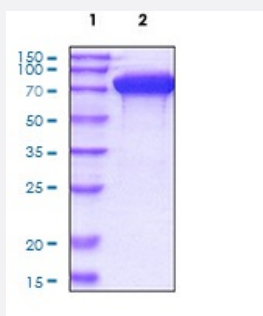
Bioactive

MME (Human) Recombinant Protein

Catalog # P8061

Size 100 ug

Applications



Specification

Product Description

Human MEE (P08473, 52 a.a. - 750 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.

Sequence

YDDGICKSSDCIKSAARLIQNMDATTEPCTDFFKYACGGWLKRNVIPETSSRYGNFDILRDELEVVL
KDV LQEPKTEDIVAVQKAKALYRSCINESAIDSRGGEPLLKLLPDYGWPVATENWEQKYGASWT
AEKAI AQLNSKYGKKVLINL FVGTD D KNSVNHVIHIDQPRLGLPSRDYECTGMYKEACTAYVDFMIS
VARLIRQEERLPIDENQLALEMNKVM E L E K E I A N A T A K P E D R N D P M L L Y N K M T L A Q I Q N N F S L E I N G
K P F S W L N F T N E I M S T V N I S I T N E E D V V V Y A P E Y L T K L K P I L T K Y S A R D L Q N L M S W R F I M D L V S S L S R T
Y K E S R N A F R K A L Y G T T S E T A T W R R C A N Y V N G N M E N A V G R L Y V E A A F A G E S K H V V E D L I A Q I R E V F I
Q T L D D L T W M D A E T K K R A E E K A L A I K E R I G Y P D D I V S N D N K L N N E Y L E L N Y K E D E Y F E N I Q N L K F S Q
S K Q L K K L R E K V D K D E W I S G A A V V N A F Y S S G R N Q I V F P A G I L Q P P F F S A Q Q S N S L N Y G G I G M V I G H E
I T H G F D D N G R N F N K D G D L V D W W T Q Q S A S N F K E Q S Q C M V Y Q Y G N F S W D L A G G Q H L N G I N T L G E N
I A D N G G L G Q A Y R A Y Q N Y I K K N G E E K L L P G L D L N H K Q L F F L N F A Q V W C G T Y R P E Y A V N S I K T D V H S P
G N F R I G T L Q N S A E F S E A F H C R K N S Y M N P E K K C R V W

Host

Viruses

Theoretical MW (kDa)

80.90000000000001

Form

Liquid

Preparation Method

Baculovirus expression system

Purity

> 95% by SDS-PAGE

Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	Specific activity is > 5000 pmol/min/ug, in which one unit will convert 1.0 pmole of Mca-SEVNLDAEF RK(Dnp)RR-NH ₂ to MCA- Pro-Leu-OH per minute at pH 8.8 at 25°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (10% glycerol, 100 mM NaCl, 1 mM PMSF)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — MME

Entrez GeneID	4311
Protein Accession#	P08473
Gene Name	MME
Gene Alias	CALLA, CD10, DKFZp686O16152, MGC126681, MGC126707, NEP
Gene Description	membrane metallo-endopeptidase
Omim ID	120520
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis 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. [provided by RefSeq]
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Other Designations

atriopeptidase|common acute lymphocytic leukemia antigen|enkephalinase|membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase)|membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)|membrane metallo-endopeptidase

Pathway

- [Hematopoietic cell lineage](#)
- [Renin-angiotensin system](#)

Disease

- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Atherosclerosis](#)
- [Brain Injuries](#)
- [Bulimia](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)