

## Recombinant Human MME

Cat. No. MME-26365TH Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant fragment corresponding to amino acids 145-249 of Human CD10 with an N terminal proprietary tag; Predicted MWt 37.29 kDa.

**Species** Human

**Source** Wheat Germ

**ProteinLength** 105 amino acids

**Description** 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.

**Molecular Weight** 37.290kDa inclusive of tags

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<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	NESAIDSRGGEPLLKLLPDIYGWPVATENWEQKYGASWTA EKAIAQLNSKYGKKVLI NLFVGTDDKNSVNHVIHIDQPRL GLPSRDYYECTGIYKEACTAYVDFM
<b>Sequence Similarities</b>	Belongs to the peptidase M13 family.

## GENE INFORMATION

<b>Gene Name</b>	MME membrane metallo-endopeptidase [ Homo sapiens ]
<b>Official Symbol</b>	MME
<b>Synonyms</b>	MME; membrane metallo-endopeptidase; neprilysin; CALLA; CD10; enkephalinase; NEP; neutral endopeptidase;
<b>Gene ID</b>	4311
<b>mRNA Refseq</b>	NM_000902
<b>Protein Refseq</b>	NP_000893
<b>MIM</b>	120520

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<b>Uniprot ID</b>	P08473
<b>Chromosome Location</b>	3q21-q27
<b>Pathway</b>	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Protein digestion and absorption, organism-specific biosystem;
<b>Function</b>	metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; peptide binding;

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