

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

GENE INFORMATION

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

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Uniprot ID	P08473
Chromosome Location	3q21-q27
Pathway	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;
Function	metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; peptide binding;

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