
Product Data Sheet

Product Name: MME Human
 Cat. No.: GP21926
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms
 Membrane Metalloendopeptidase; Common Acute Lymphocytic Leukemia Antigen; Neutral Endopeptidase 24.11; Skin Fibroblast Elastase; Neutral Endopeptidase; Atriopeptidase; Enkephalinase; EC 3.4.24.11; Neprilysin; CALLA; NEP; SFE; Membrane Metallo-Endopeptidase (Neutral Endopeptidase; Enkephalinase; CALLA; CD10); Membrane Metallo-Endopeptidase Variant 1; Membrane Metallo-Endopeptidase Variant 2; Neprilysin-390; Neprilysin-411; CD10 Antigen; EC 3.4.24; CMT2T; SCA43; CD10; EPN; MME.

Amino Acid Sequence
 ADPYDDGICK SSDCIKSAAR LIQNMDATTE PCTDFFKYAC GGWLKRNVIP
 ETSSRYGNFD ILRDELEVVL KDVLQEPKTE DIVAVQKAKA LYRSCINESA
 IDSRGGEPLL KLLPDIYGWP VATENWEQKY GASWTAEKAI AQLNSKYGKK
 VLINLFGTD DKNSVNHVIH IDQPRGLPS RDYYECTGIY KEACTAYVDF
 MISVARLIRQ EERLPIDENQ LALEMNKVME LEKEIANATA KPEDRNDPML
 LYNKMTLAQI QNNFSLEING KPFSWLNFTN EIMSTVNISI TNEEDVVVYA
 PEYLTKLKPI LTKYSARDLQ NLMSWRFIMD LVSSLSRTYK ESRNAFRKAL
 YGTTSETATWRRRCANYVNGN MENAVGRLYV EAAFAGESKH VVEDLIAQIR
 EVFIQTLDDL TWMDAETKKR AEEKALAIKE RIGYPDDIVS NDNKLNNEYL
 ELNYKEDEYF ENIIQNLKFS QSKQLKKLRE KVDKDEWISG AAVVNAFYSS
 GRNQIVFPAG ILQPPFFSAQ QSNLNYGGI GMVIGHEITH GFDDNGRNFN
 KDGDLDVDDWT QQSASNFKEQ SQCMVYQYGN FSWDLAGGQH LNGINTLGEN
 IADNGGLGQA YRAYQNYIKK NGEKLLPGL DLNHNKQLFFL NFAQVWCGTY
 RPEYAVNSIK TDVHSPGNFR IIGTLQNSAE FSEAFHCRKN SYMNPEKKCR
 VWHHHHHH

Formulation
 MME protein solution (1mg/ml) 20 mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 0.1mM PMSF and 10% glycerol.

Caution: Product has not been fully validated for medical applications. For research use only.

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Introduction

Membrane Metalloendopeptidase, also known as MME is a zinc metallopeptidase which is expressed at the cell surface of various cells. MME degrades the amyloid beta peptide whose abnormal misfolding as well as aggregation in neural tissue has been implicated as the cause for Alzheimer's disease. MME is expressed in an extended range of tissues and is especially plentiful in the kidney. MME is also a common acute lymphocytic leukemia antigen which is a significant cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). MME is used in hematological diagnosis because it is expressed by early B, pro-B and pre-B lymphocytes, and also by lymph node germinal centers.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MME Human Recombinant produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 708 amino acids (52-750 a.a.) and having a molecular mass of 80.9kDa (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). MME is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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