

Human CD10/Neprilysin ELISA Kit | MME elisa kit

Human CD10/Neprilysin PicoKine ELISA Kit

CATALOG #
AAA46004

REACTIVITY
Human

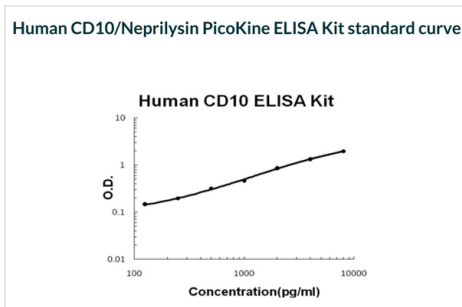
PRODUCT SYNONYMS

CD10/Neprilysin; Human CD10/Neprilysin PicoKine ELISA Kit; Neprilysin; membrane metallo-endopeptidase; Atriopeptidase; CALLA; CD 10; CD10; CD10 antigen; Common acute lymphocytic leukemia antigen; DKFZp686O16152; EC 3.4.24.11; Enkephalinase; EPN; gp100; Membrane metallo endopeptidase (neutral endopeptidase; enkephalinase); enkephalinase; CD10; Membrane metallo endopeptidase; Membrane metallo endopeptidase variant 1; Membrane metallo endopeptidase variant 2; Membrane metalloendopeptidase; Membrane metalloendopeptidase neutral endopeptidase enkephalinase; Membrane metalloendopeptidase neutral endopeptidase enkephalinase CALLA CD10; Membrane metalloendopeptidase variant 1; Membrane metalloendopeptidase variant 2; MGC126681; MGC126707; MME; NEP; NEP_HUMAN; Neutral endopeptidase 24.11; Neutral endopeptidase; SFE; Skin fibroblast elastase; MME elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human MME
Sequence Length	750
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	125 pg/ml - 8,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MME elisa kit	Background: CD10, also known as membrane metallo-endopeptidase, neutral endopeptidase (NEP), Neprilysin, or common acute lymphoblastic leukemia antigen (CALLA), is a zinc-dependent metalloprotease enzyme that degrades a number of small secreted peptides, most notably the amyloid beta peptide whose abnormal misfolding and aggregation in neural tissue has been implicated as a cause of Alzheimer's disease. This gene is localized to human chromosome 3 by study of somatic cell hybrids and regionalized the location to 3q21-q27 by in situ hybridization. By cDNA transfection analysis, CD10 is confirmed as a functional neutral endopeptidase of the type that has previously been called enkephalinase. CD10 has also been called atriopепtidase. Atriopепtidase specifically degrades atrial natriuretic factor. A specific enzyme inhibitor was developed and reported that it had effects similar to those of low-dose ANF infusion. These effects include diuresis, natriuresis, vasodilatation, and suppression of the reninangiotensin- aldosterone system. Principle of the Assay: The Boster Picokine™ Human MME Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human MME with a 96-well strip plate that is pre-coated with antibody specific for MME. The detection antibody is a biotinylated antibody specific for MME. The capture antibody is polyclonal antibody from goat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human MME with immunogen: Expression system for standard: CHO; Immunogen sequence: Y52-W750. The kit is analytically validated with ready-to-use reagents. To measure Human MME, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human MME in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human MME in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	128062
NCBI GeneID	4311
UniProt Accession #	P08473; Q3MIX4; A8K6U6; D3DNJ9
Molecular Weight	85,514 Da
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
NCBI Protein Information	neprilysin; enkephalinase; atriopепtidase; neprilysin-390; neprilysin-411; skin fibroblast elastase; neutral endopeptidase 24.11; membrane metallo-endopeptidase variant 1; membrane metallo-endopeptidase variant 2; common acute lymphocytic leukemia antigen; membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase); membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)
UniProt Protein Name	Neprilysin
UniProt Gene Name	MME
UniProt Synonym Gene Names	EPN; CALLA; NEP; Neutral endopeptidase; SFE
UniProt Entry Name	NEP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.