Datasheet for ABIN7196973

# MME Protein

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 50 µg |
| Target: | MME |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |

## Product Details

| | |
|---|---|
| Purpose: | Recombinant Human CD10/Neprilysin Protein (Active) |
| Sequence: | Tyr 52-Trp 750 |
| Characteristics: | A DNA sequence encoding the extracellular domain (Tyr 52-Trp 750) of human MME (NP_000893.2) was expressed and purified. |
| Purity: | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method. |
| Biological Activity Comment: | Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK(Dnp)-OH, (R&D Systems, Catalog # ES005). The specific activity is >1,000 pmoles/min/µg. |

## Target Details

| | |
|---|---|
| Target: | MME |
| Alternative Name: | CD10/Neprilysin (MME Products) |

## Target Details

| | |
|---|---|
| Background: | Background: The cluster of differentiation (CD) system is commonly used as cell markers in immunophynotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 10 (CD10), also known as Neprilysin and neutral endopeptidase, is a member of the CD system. CD10 is a zinc-dependent metalloprotease enzyme that had function to degrade a number of small secreted peptides such as the amyloid beta peptide. It exist as a membrane-bound protein and have high concentration in kidney and lung tissues. Mutations in the CD10 gene can induce the familial forms of Alzheimer's disease, providing strong evidence for the protein's association with the Alzheimer's disease process. CD10 is also associated with other biochemical processes.<br>Synonym: CALLA,CD10,NEP,SFE |
| Molecular Weight: | 80 kDa |
| NCBI Accession: | NP_000893 |
| Pathways: | RTK Signaling, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Smooth Muscle Cell Migration |

## Application Details

| | |
|---|---|
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile PBS, pH 7.4 |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |