

Recombinant Human MME/CD10 Protein

Catalog No.: RP02826 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4311	P08473

Tags

C-His

Synonyms

MME; EPN

Product Information

Source	Purification
HEK293 Cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
82.2 kDa	95-105 kDa

Endotoxin

<1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM MES, 100mM NaCl, 1mM ZnCl₂, 10%glycerol, pH 6.5.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules 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 alters the behavior of the cell. Some CD proteins do not take part in the cell signal process but have other functions such as cell adhesion. The 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 the function to degrade some small secreted peptides such as the amyloid beta-peptide. It exists as a membrane-bound protein and has a 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.

Basic Information

Description

Recombinant Human MME/CD10 Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Tyr52-Trp750) of human MME/CD10 (Accession #NP_000893.2) fused with a 6×His tag at the C-terminus.

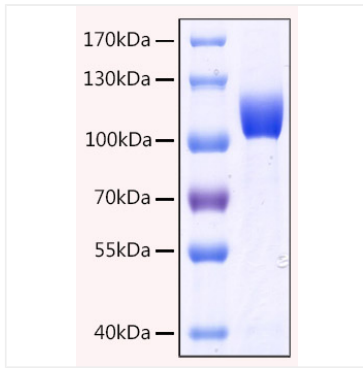
Bio-Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK (Dnp)-OH, (R&D Systems, Catalog # ES005). The specific activity is >1,500 pmoles/min/μg.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human CD10/MME Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 95-105 kDa.