Recombinant Human MME/Neprilysin/CD10 Protein

Catalog No.: RP02826

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Sequence Information

Species
Human

Gene ID
4311

Swiss Prot
P08473

Tags
N-His

Synonyms
MME, EPN

Product Information

Source
HEK293 Cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
82.2 kDa

Observed MW
95-105 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 His tag at the N-terminus.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

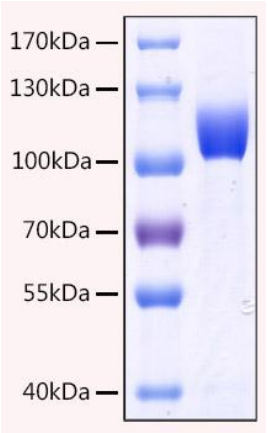
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human MME/CD10 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.