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37-1280: Human Carboxypeptidase M / CPM Recombinant Protein (His Tag)(Discontinued)

Reactivity : Human
Alternative Name : none

Description

Source : HEK293 Cells
Carboxypeptidase M, also known as CPM, is a membrane-bound arginine/lysine carboxypeptidase which is a member of the carboxypeptidases family. These enzymes remove C-terminal amino acids from peptides and proteins and exert roles in the physiological processes of blood coagulation/fibrinolysis, inflammation, food digestion and pro-hormone and neuropeptide processing. Among the carboxypeptidases CPM is of particular importance because of its constitutive expression in an active form at the surface of specialized cells and tissues in the human body. CPM in the brain appears to be membrane-bound via a phosphatidylinositol glycan anchor. CPM is widely distributed in a variety of tissues and cells. The amino acid sequence of CPM indicated that the C-terminal hydrophobic region might be a signal for membrane attachment via a glycosylphosphatidylinositol (GPI) anchor. CPM is involved in peptide metabolism on both the cell surface and in extracellular fluids. CPM functions not only as a protease but also as a binding partner in cell-surface protein-protein interactions.

Product Info

Amount :	Human Carboxypeptidase M / CPM Recombinant Protein (His Tag)(Discontinued) / 20 µg
Purification :	> 98 % as determined by SDS-PAGE
Content :	Formulation Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Storage condition :	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Amino Acid :	Met1-His422

Application Note

Measured by its ability to release Larginine from BenzoylAlaArg, with detection of the arginine amino group by ophthaldialdehyde. The specific activity is >40,000 pmoles/min/Ã‚Âµg.
Endotoxin :< 1.0 EU per Ã‚Âµg of the protein as determined by the LAL method

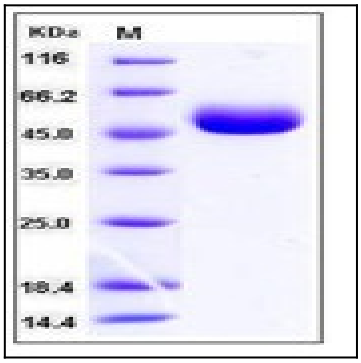


Fig 1: Human Carboxypeptidase M / CPM Recombinant Protein (His Tag)

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