



[Go to Product page](#)

Datasheet for ABIN7194614  
**CPM Protein (His tag)**

### Overview

Quantity:	50 µg
Target:	CPM
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CPM protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Carboxypeptidase M/CPM Protein (His Tag)(Active)
Sequence:	Met 1-His 422
Characteristics:	A DNA sequence encoding the human CPM (NP_938079.1) without the propeptide (Met 1-His 422) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 98 % 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 release Larginine from BenzoylAlaArg, with detection of the arginine amino group by ophthalaldehyde. The specific activity is >40,000 pmoles/min/µg.

### Target Details

Target:	CPM
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## Target Details

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Alternative Name: Carboxypeptidase M/CPM ([CPM Products](#))

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Background: 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.

Synonym: Carboxypeptidase M,CPM

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Molecular Weight: 47.7 kDa

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NCBI Accession: [NP\\_938079](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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Buffer: Lyophilized from sterile PBS, pH 7.4

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Storage: 4 °C, -20 °C, -80 °C

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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.