## Human CPM Protein

## Cat. No. CPM-HM101

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Description	
Source	Recombinant Human CPM Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Leu18-Ser423.
Accession	P14384
Molecular Weight	The protein has a predicted MW of 47.48 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Carboxypeptidase M (CPM) is a glycosylphosphatidylinositol anchored enzyme that plays an important role in the kallikrein-kinin system (KKS). CPM catalytic domain hydrolyzes Arg from C-terminal peptides (i.e., bradykinin and kallidin), generating des-Arg-kinins, the agonists of B1 receptor (B1R).
Assay Data	
Bis-Tris PAGE	
MK 140KD	R
80KD 70KD	

Human CPM on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

50KD 40KD

30KD 25KD

15KD

10KD

