

Human CPM Protein

Cat. No. CPM-HM101

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

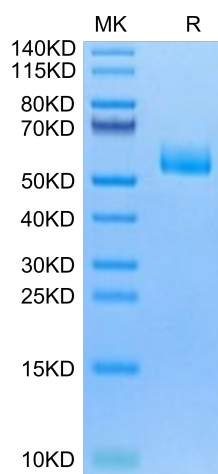
| | |
|--------------------|--|
| Formulation | Supplied as 0.22 μm filtered solution in PBS (pH 7.4). |
| Storage | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

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).

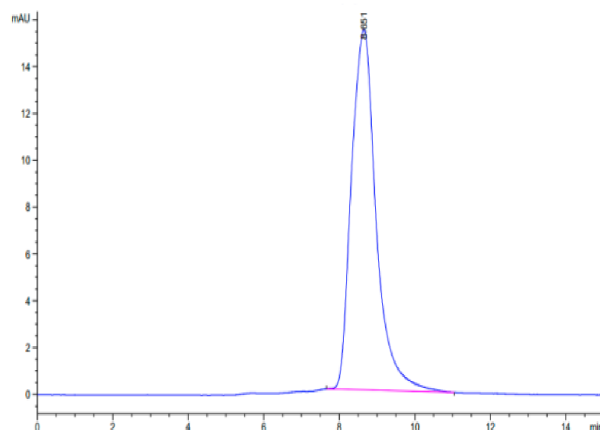
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human CPM is greater than 95% as determined by SEC-HPLC.

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Assay Data

Bioactivity Data

Measured by its ability to release L-arginine from Benzoyl-Ala-Arg, with detection of the arginine amino group by o-phthaldialdehyde. The specific activity is >40,000 pmol/min/μg.