

Carboxypeptidase M Protein, Human, Recombinant (His)

General Information

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| Synonyms: | carboxypeptidase M |
| Protein Construction: | Leu18-Ser423 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P14384 |
| Molecular Weight: | 47.48 kDa (Predicted); 50-65 kDa (Reducing conditions due to glycosylation) |

QC Testing

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| Biological Activity: | Measured by its ability to release L-arginine from Benzoyl-Ala-Arg, with detection of the arginine amino group by o-phthalaldehyde. The specific activity is >40,000 pmol/min/μg. (QC Test) |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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).

Reference

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Nagae A. et al., 1992, J Neurochem. 59 (6): 2201-12.
Skidgel RA. et al., 1996, Immunopharmacology. 32 (1-3): 48-52.
Deiteren K. et al., 2009, Clin Chim Acta. 399 (1-2): 24-39.

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