

Carboxypeptidase M/CPM Protein, Mouse (406a.a, HEK293, His)

Cat. No.:	HY-P7738
Synonyms:	rMuCarboxypeptidase M, His; Carboxypeptidase M; CPM
Species:	Mouse
Source:	HEK293
Accession:	Q80V42 (L18-S423)
Gene ID:	70574
Molecular Weight:	Approximately 56.0 kDa

PROPERTIES

AA Sequence	<pre> LDFRYHHQEG MEAFLKSVAQ NYSSITHLHS IGKSVRGRNL WVLLVVGQTPK EHRVG IPEFK YVANMHGDET VGRELLHLI DYLVS SYRKD PEITHLIDST RIHIMP SMNP DGFEAVQKPD CYY SNGRENY NNYDLNRNFP DAFENNVTK QPETLAIMEW LKTET FVLSA NLHG GALVAS YPF DNGVQAT GTLLSRSLTP DDDVFQH LAY TYASRNP NMT KGDQCKNKRN FPNGIINGYS WYPLQGGMQD YNYIWAQCFE ITLELSCCKY PREEKLPLFW NDNKASLIEY IKQVHLGVKG QVFDQSGAPL PNVIVEVQDR KHICPFRTNK LGEYLLLLLP GSYVINVTVP GHDSYLT KLT IPGKSQP FSA LKKDFHLP LR WQPDSISVSN PSCPMIPLYK FMP SHSHHHH HH </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Carboxypeptidase M is a membrane-bound arginine/lysine carboxypeptidase enzyme, cleaves C-terminal basic amino acids with a neutral pH optimum^[1].

Carboxypeptidase M belongs to the carboxypeptidases family. Carboxypeptidase M is widely distributed in a variety of tissues and cells, and it constitutively expresses in an active form at the surface of specialized cells and tissues in the human body^[2].

Carboxypeptidase M plays an important role in the physiological processes of blood coagulation/fibrinolysis, inflammation, food digestion and pro-hormone and neuropeptide processing^[3].

REFERENCES

[1]. A Nagae, et al. Carboxypeptidase M in brain and peripheral nerves. J Neurochem

[2]. Kathleen Deiteren, et al. Carboxypeptidase M: Multiple alliances and unknown partners. Clin Chim Acta. 2009 Jan;399(1-2):24-39.

[3]. David Reverter, Crystal structure of human carboxypeptidase M, a membrane-bound enzyme that regulates peptide hormone activity. J Mol Biol

Caution: Product has not been fully validated for medical applications. For research use only.

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