

Active Recombinant Mouse CPA2 Protein, His-tagged

Cat. No. CPA2-913M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CPA2 (Q504N0) (Met 1-Tyr 417) was expressed, with a C-terminal polyhistidine tag.
Species	Mouse
Source	HEK293
ProteinLength	1-417 a.a.
Predicted N Terminal	Gln 17
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its ability to cleave the colorimetric peptide substrate Ac-Phe-Thiaphe-OH in the presence of DTNB. The specific activity is >4000 pmoles/min/μg.
Molecular Mass	The secreted recombinant mouse CPA2 (pro form) comprises 412 amino acids and has a calculated molecular mass of 46.6 kDa. It migrates as an approximately 47 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	>92 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.

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Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	Cpa2 carboxypeptidase A2, pancreatic [<i>Mus musculus</i>]
Official Symbol	CPA2
Synonyms	CPA2; carboxypeptidase A2, pancreatic; carboxypeptidase A2; MGC107514;
Gene ID	232680
mRNA Refseq	NM_001024698
Protein Refseq	NP_001019869
MIM	
UniProt ID	
Pathway	Pancreatic secretion, organism-specific biosystem; Pancreatic secretion, conserved biosystem; Protein digestion and absorption, organism-specific biosystem; Protein digestion and absorption, conserved biosystem;
Function	carboxypeptidase activity; hydrolase activity; metal ion binding; metallocarboxypeptidase activity; metallopeptidase activity; peptidase activity; zinc ion binding;

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