Active Recombinant Rat Carboxypeptidase B1 (tissue)

Cat. No. Cpb1-1244R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cpb1 is expressed in E.Coli having a Mw of 35kDa is purified by standard chromatography techniques. Recombinant Rat Cpb1 is free from foreign enzymes such as carboxypeptidase A & chymotrypsin. Recombinant Cpb1 is free from protease inhibitors such as PMSF and EDTA.
Species	Rat
Source	Rat
Description	Cpb1 (EC 3.4.17.2) catalyzes hydrolysis of the basic amino acids lysine, arginine and ornithine from the C-terminal end of polypeptides. The Mw was found to be 34.5 kda, optimun pH-7.9, and pI-6. Cpb1 is inhibited by arginine, lysine and ornithine. The enzyme is not inhibited by di-isopropylfluorophosphate (DFP), but it is inhibited by metal chelating agents, e.g., EDTA, 1,10-phenanthroline.
Form	The protein was lyophilized with 100mM NaCl and 20mM Tris pH-7.5.
Purity	Greater than 90% as determined by SDS-PAGE.
Bio-activity	170 units/mg protein.
Physical Appearance	Sterile Filtered lyophilized powder.
Solubility	It is recommended to reconstitute the lyophilized Rat Cpb1 in sterile 18Mμ-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

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Storage	Recombinant Rat Cpb1 although stable at room temp for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	Cpb1 carboxypeptidase B1 (tissue) [Rattus norvegicus]
Official Symbol	Cpb1
Synonyms	Cpb1; carboxypeptidase B1 (tissue); Cpb; carboxypeptidase B; pancreatic carboxypeptidase B1; EC 3.4.17.2; Pancreas-specific protein; CPB; PASP; PCPB; DKFZp779K1333; OTTHUMP00000215657; OTTHUMP00000215669; procarboxypeptidase B; EC 3.4.17
Gene ID	24271
mRNA Refseq	NM_012533
Protein Refseq	NP_036665
UniProt ID	P19223
Chromosome Location	2q24
Pathway	Pancreatic secretion
Function	carboxypeptidase activity; metal ion binding; metallocarboxypeptidase activity; metallopeptidase activity; peptidase activity; zinc ion binding

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