

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, optimum 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 18M μ -cm H ₂ O not less than 100g/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; metalloproteinase activity; peptidase activity; zinc ion binding

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