

Active Recombinant Rat Carboxypeptidase B Protein, Tag Free

Cat. No. CPB-01R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Carboxypeptidase B is expressed in E.coli and is purified by high pressure liquid chromatography. No trace contamination with proteases, such as carboxypeptidase A or chymotrypsin, nor protease inhibitors such as PMSF.
Species	Rat
Source	E.coli
Description	Carboxypeptidase B catalyzes the hydrolysis of basic amino acids lysine, arginine, and histidine at the C-terminal end of polypeptides. The molecular weight is 33.8 kDa, the optimum pH is 8.0, and pI is 6.0. Carboxypeptidase B is competitively inhibited by arginine and lysine. The enzyme is also inhibited by metal chelating agents, e.g., EDTA.
Tag	Non
Form	White to off-white lyophilized powder
Bio-activity	≥170 Units/mg protein
CAS #	9025-24-5
Molecular Mass	34.5 kDa
Purity	> 95%, Purified by HPLC

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Additives	Tris salts, NaCl and carbohydrates.
Unit Definition	One unit of carboxypeptidase B activity hydrolyzes one micromole of hippuryl-L-arginine per minute at 25 centigrade, pH 7.65.
Stability	Provided as sterile lyophilized powder, highly stable during transportation and storage.
Storage	Store in a sealed container at 2-8 centigrade. Once reconstituted, it should be stored at -20 centigrade. The product is stable for 24 months. Greater than 90% enzymatic activity retains after 10 repeated freeze-and-thaw cycles.
GENE INFORMATION	
Official Symbol	CPB
Synonyms	CPB; Carboxypeptidase B

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