

Recombinant Human CPB1, His-tagged

Cat. No. CPB1-7752H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Carboxypeptidase B/CPB1 is produced with our mammalian cells expression system in HEK293. The target protein is expressed with sequence (His16Tyr417) of Human CPB1 fused with a polyhistidine tag at the Cterminus.
Species	Human
Source	HEK293
Description	Carboxypeptidase B1 is an exopeptidase which specifically cleaves the Cterminal Arg and Lys residues with a preference for Arg. Expressed mainly in pancreas, CPB1 is a useful serum marker for acute pancreatitis and pancreatic graft rejection. Human CPB1 consists of a signal peptide, a pro region, and a mature chain. The purified rhCPB1 corresponds to the pro form, which can be activated by trypsin, the only pancreatic protease capable of generating active enzyme from the zymogen in vitro.
Form	Supplied as a 0.2 µM filtered solution of 20mM MES, 150mM NaCl, pH 5.5
AA Sequence	HHGGEHFEGE KVFRVNVEDE NHINIRELA STTQIDFWKP DSVTQIKPHS TVDFRVKAED TVTVENVLK QNELQYKVL I SNLRNVVEAQ FDSRVRATGH SYEKYNKWET IEAWTQQVAT E NPALISRS VIGTTFEGRA IYLLKVGKAG QNKPAIFMDC GFHAREWISP AFCQWFVREA VR TYGREIQ VTELLDKLDF YVLPVLNIDG YIYTWTKS RF WRKTRSTHTG SSCIGTDPNR NFD AGWCEI GASRNP CDET
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

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Notes	For research use only.
Storage	Store at less than 20°C. stable for 6 months after receipt. Please minimize freeze/thaw cycles.
GENE INFORMATION	
Gene Name	CPB1 carboxypeptidase B1 (tissue) [Homo sapiens]
Official Symbol	CPB1
Synonyms	CPB1; carboxypeptidase B1 (tissue); carboxypeptidase B; pancreatic carboxypeptidase B; protaminase; tissue carboxypeptidase B; procarboxypeptidase B; pancreas-specific protein; CPB; PASP; PCPB; DKFZp779K1333;
Gene ID	1360
mRNA Refseq	NM_001871
Protein Refseq	NP_001862
MIM	114852
UniProt ID	P15086
Chromosome Location	3q24
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; metal ion binding; metallocarboxypeptidase activity; metalloproteinase activity; peptidase activity; zinc ion binding;

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