

Native Human CPB2

Cat. No. CPB2-27270TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native protein , corresponding to amino acids 23-423 of Human Carboxypeptidase B2.
Species	Human
ProteinLength	400 amino acids
Description	<p>Carboxypeptidases are enzymes that hydrolyze C-terminal peptide bonds. The carboxypeptidase family includes metallo-, serine, and cysteine carboxypeptidases. According to their substrate specificity, these enzymes are referred to as carboxypeptidase A (cleaving aliphatic residues) or carboxypeptidase B (cleaving basic amino residues). The protein encoded by this gene is activated by trypsin and acts on carboxypeptidase B substrates. After thrombin activation, the mature protein downregulates fibrinolysis. Polymorphisms have been described for this gene and its promoter region. Available sequence data analyses indicate splice variants that encode different isoforms.</p>
Biological activity	<p>Specific Activity: 2.0-9.2 units/mg. Specific activity is determined by a kinetic assay using Hippuryl-L-Arginine as substrate. One unit equals one micromole of Hippuryl-L-Arginine hydrolyzed per minute. Specific activity is reported in Units per milligram.</p>
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 20mM HEPES, 150mM Sodium chloride, pH 7.4
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
GENE INFORMATION	
Gene Name	CPB2 carboxypeptidase B2 (plasma) [Homo sapiens]
Official Symbol	CPB2
Synonyms	CPB2; carboxypeptidase B2 (plasma); carboxypeptidase B2 (plasma, carboxypeptidase U); carboxypeptidase B2; carboxypeptidase U; CPU; PCPB; TAFI; thrombin activatable fibrinolysis inhibitor;
Gene ID	1361
mRNA Refseq	NM_001872
Protein Refseq	NP_001863
MIM	603101
Uniprot ID	Q96IY4
Chromosome Location	13q14.11
Pathway	Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Pancreatic secretion, organism-specific

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biosystem; Pancreatic secretion, conserved biosystem;

Function

metal ion binding; metalcarboxypeptidase activity; metallopeptidase activity; peptidase activity; zinc ion binding;

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