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	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.
Biological activity	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 hyrolyzed per minute.Specific activity is reported in Units per milligram.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: NoneConstituents: 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; metallocarboxypeptidase activity; metallopeptidase activity; peptidase activity; zinc ion binding;

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