

Active Native Human CPB2

Cat. No. CPB2-8517H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human TAFI is prepared from fresh frozen human plasma by a modification of the method of Bajzar, et. al.
Species	Human
Source	Human
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.
Form	20 mM Hepes, 150 mM NaCl, pH 7.4
Bio-activity	Hippuryl-L-Arginine hydrolysis. Activity is determined measuring the rate of hydrolysis of hippuryl-L- Arg following activation with the thrombin/ thrombomodulin complex.
Molecular Mass	60,000
Purity	>95% by SDS-PAGE

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Storage -80°C

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 R; carboxypeptidase U; CPU; PCPB; plasma carboxypeptidase B; TAFI; thrombin activatable fibrinolysis inhibitor; carboxypeptidase B-like protein; thrombin-activable fibrinolysis inhibitor; 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 biosystem; Pancreatic secretion, conserved biosystem; Protein digestion and

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absorption, organism-specific biosystem; Protein digestion and absorption, conserved biosystem;

Function

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

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