

# Recombinant Human Carboxypeptidase B2/CPB2 Protein (His Tag)



Catalog Number:PKSH032172

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

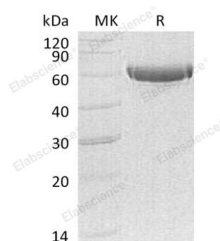
## Description

<b>Synonyms</b>	Carboxypeptidase B2;Carboxypeptidase U;CPU;Plasma Carboxypeptidase B;pCPB;Thrombin-Activable Fibrinolysis Inhibitor;TAFI;CPB2
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Phe23-Val423
<b>Accession</b>	NP_001863.3
<b>Calculated Molecular Weight</b>	47.0 kDa
<b>Observed molecular weight</b>	55-65 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM ZnCl <sub>2</sub> , 10% Glycerol, pH8.0.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Carboxypeptidase B2 (CPB2) is a secreted enzyme that belongs to the peptidase M14 family. CPB2 is synthesized by the liver and circulates in the plasma as a plasminogen-bound zymogen by the liver and circulates in the plasma as a plasminogen-bound zymogen. CPB2 cleaves C-terminal arginine or lysine residues from biologically active peptides, such as kinins or anaphylatoxins, in the circulation regulating their activities. CPB2 also down-regulates fibrinolysis by removing C-terminal lysine residues from fibrin that has already been partially degraded by plasmin. CPB2 exhibits carboxypeptidase activity when it is activated by proteolysis at residue Arg92 of the thrombin/thrombomodulin complex. Activated CPB2 reduces fibrinolysis by removing the fibrin C-terminal residues that are important for the binding and activation of plasminogen.

## For Research Use Only

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