

## Recombinant Human CPB2 (C-6His)

Catalog No: CA32

<b>Description</b>	Recombinant Human Carboxypeptidase B2 is produced by our Mammalian expression system and the target gene encoding Phe23-Val423 is expressed with a 6His tag at the C-terminus.
<b>Expression System</b>	Human 293 Cells
<b>Alternative name</b>	Carboxypeptidase B2; Carboxypeptidase U; CPU; Plasma Carboxypeptidase B; pCPB; Thrombin-Activable Fibrinolysis Inhibitor; TAFI; CPB2
<b>Accession No.</b>	NP_001863.3
<b>Predicted Molecular Weight</b>	47kDa
<b>Apparent Molecular Weight</b>	55-75kDa, reducing conditions.
<b>Quality Control</b>	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
<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>Shipping</b>	The product is shipped on dry ice or ice pack. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Background</b>	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.

### SDS-PAGE

