**Product Name: Recombinant Human CPB2 (C-6His)**
**Catalog #: PHH0229**

## Summary

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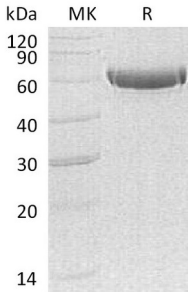
| **Name** | Carboxypeptidase B2/CPB2 |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE |
| **Endotoxin level** | <1 EU/μg as determined by LAL test. |
| **Construction** | Recombinant Human Carboxypeptidase B2 is produced by our Mammalian expression system and the target gene encoding Phe23-Val423 is expressed with a 6His tag at the C-terminus. |
| **Accession #** | NP_001863.3 |
| **Host** | Human Cells |
| **Species** | Human |
| **Predicted Molecular Mass** | 47 KDa |
| **Formulation** | Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM ZnCl2, 10% Glycerol, pH8.0. |
| **Shipping** | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below. |
| **Stability&Storage** | 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. |
| **Reconstitution** | |

## SDS-PAGE image




## Background

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| **Alternative Names** | Carboxypeptidase B2; Carboxypeptidase U; CPU; Plasma Carboxypeptidase B; pCPB; Thrombin-Activable Fibrinolysis Inhibitor; TAFI; CPB2 |
| **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.

## Note

For Research Use Only , Not for Diagnostic Use.