



Recombinant Protein Technical Manual
Recombinant Human Carboxypeptidase B2/CPB2
Protein (His Tag)
RPES4464

Product Data:

Product SKU: RPES4464

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q96IY4

Protein Information:

Molecular Mass: 47.0 kDa

AP Molecular Mass: 58 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: 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.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 1mM ZnCl₂, 10% Glycerol, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Carboxypeptidase B2; Carboxypeptidase U; CPU; Plasma Carboxypeptidase B; pCPB; Thrombin-Activable Fibrinolysis Inhibitor; TAFI; CPB2

Immunogen Information:

Sequence: Phe23-Val423

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.