

Carboxypeptidase B2 / CPB2 Recombinant Protein | CPB2 recombinant protein

Recombinant Human Carboxypeptidase B2 / CPB2 Protein (His tag)

CATALOG #
AAA173544

HOST
HEK293 Cells

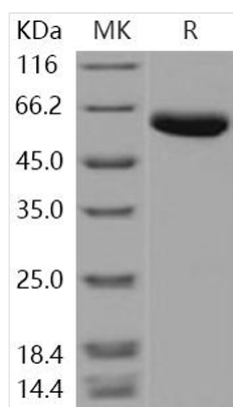
PRODUCT SYNONYMS

Carboxypeptidase B2 / CPB2; Recombinant Human Carboxypeptidase B2 / CPB2 Protein (His tag); Carboxypeptidase B2; Carboxypeptidase U; CPU; Plasma Carboxypeptidase B; pCPB; Thrombin-Activable Fibrinolysis Inhibitor; TAFI; CPB2; CPB2 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	> 97 % as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5% Trehalose, 5% Mannitol, 0.01% Tween-80
Sequence	Met1-Val42 3
Species	Human
Tag	C-His
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at < -20°C. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. This product is provided as lyophilized powder which is shipped with blue ice.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CPB2 recombinant protein	Carboxypeptidase B2, also known as Carboxypeptidase U, Thrombin-activable fibrinolysis inhibitor, Plasma carboxypeptidase B, CPB2, is a secreted protein which belongs to the peptidase M14 family. 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). CPB2 is activated by thrombin and acts on carboxypeptidase B substrates. After thrombin activation, the mature protein downregulates fibrinolysis. CPB2 is synthesized by the liver and circulates in the plasma as a plasminogen-bound zymogen. When it is activated by proteolysis at residue Arg92 by the thrombin / thrombomodulin complex. CPB2 cleaves C-terminal arginine or lysine residues from biologically active peptides such as kinins or anaphylatoxins in the circulation thereby regulating their activities. CPB2 exhibits carboxypeptidase activity and activated CPB2 reduces fibrinolysis by removing the fibrin C-terminal residues that are important for the binding and activation of plasminogen.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126273569
NCBI GeneID	1361
NCBI Accession #	NP_001863.2
NCBI GenBank Nucleotide #	NM_001872.3
Molecular Weight	Mol Mass: 47.4 kDa AP Mol Mass: 45-50 kDa
NCBI Official Full Name	carboxypeptidase B2 preproprotein
NCBI Official Synonym Full Names	carboxypeptidase B2
NCBI Official Symbol	CPB2
NCBI Official Synonym Symbols	CPU; PCPB; TAFI
NCBI Protein Information	carboxypeptidase B2
UniProt Protein Name	Carboxypeptidase B2
UniProt Gene Name	CPB2
UniProt Synonym Gene Names	CPU; pCPB; TAFI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.