



Recombinant Protein Technical Manual
Recombinant Human Carboxypeptidase B1/CPB1
Protein (His Tag)
RPES4443

Product Data:

Product SKU: RPES4443

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P15086

Protein Information:

Molecular Mass: 46.9 kDa

AP Molecular Mass: 47 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 MES, 150mM NaCl, pH 5.5.

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

Application:

Synonyms: Carboxypeptidase B; Pancreas-Specific Protein; PASP; CPB1; CPB; PCPB

Immunogen Information:

Sequence: His16-Tyr417

Background:

Carboxypeptidase B1 is an exopeptidase which specifically cleaves the C-terminal Arg and Lys residues with a preference for Arg. Expressed mainly in pancreas, CPB1 is a useful serum marker for acute pancreatitis and pancreatic graft rejection. Human CPB1 consists of a signal peptide, a pro region, and a mature chain. The purified rhCPB1 corresponds to the pro form, which can be activated by trypsin, the only pancreatic protease capable of generating active enzyme from the zymogen in vitro.