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Datasheet for ABIN7194604 CPB1 Protein (His tag)

Overview

Quantity:	50 µg
Target:	CPB1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CPB1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carboxypeptidase B1/CPB1 Protein (His Tag)(Active)
Sequence:	Met 1-Tyr 417
Characteristics:	A DNA sequence encoding the human CPB1 (NP_001862.2) (Met 1-Tyr 417) was expressed with a C-terminal polyhistidine tag.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave a colorimetric peptide substrate, Hippuryl-Arg, as measured using the wavelength at 254 nm. The specific activity is >10000 pmoles/min/µg.

Target Details

Target:	CPB1
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Target Details

Alternative Name:	Carboxypeptidase B1/CPB1 (CPB1 Products)
Background:	<p>Background: Carboxypeptidase B1, also well known as pancreatic procarboxypeptidase B (PCPB), is a highly pancreas -specific protein (PASP), and has been identified previously as a serum marker for acute pancreatitis and pancreatic graft rejection. As the prototype for those human exopeptidases that cleave off basic C-terminal residues, CPB1 specifically cleaves the C-terminal Arg and Lys residues with a preference for Arg. The B1 and B2 forms of procarboxypeptidase B differ from each other mainly in isoelectric point. The deduced amino acid sequence of PCPB predicts a 416-amino acid preproenzyme consisting of a 15-aa signal peptide, a 95-aa activation peptide and a 307-aa mature chain. The secreted PCPB zymogen is converted to enzymatically active CPB1 by limited proteolysis by trypsin.</p> <p>Synonym: Carboxypeptidase B, Pancreas-Specific Protein, PASP, CPB1, CPB, PCPB</p>
Molecular Weight:	47 kDa
NCBI Accession:	NP_001862

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 25 mM MES, 0.1 M NaCl, pH 6.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>