

Datasheet for ABIN1096221

**Carboxypeptidase A2 Protein (AA 17-417) (His tag)**[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	Carboxypeptidase A2 (CPA2)
Protein Characteristics:	AA 17-417
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Carboxypeptidase A2 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Carboxypeptidase A2/CPA2 (C-6His)
Sequence:	LETFGDQVL EIVPSNEEQI KNLLQLEAQE HLQLDFWKSP TTPGETAHVR VPFVNVQAVK VFLGSQGIAY SIMIEDVQVL LDKENEEMLF NRRRERSGNF NFGAYHTLEE ISQEMDNLVA EHPGLVSKVN IGSSFENRPM NVLKfstGGD KPAIWLDAGI HAREWVTQAT ALWTANKIVS DYGKDPSITS ILDALDIFLL PVTNPDGYVF SQTKNRMWRK TRSKVSGSLC VGVDPNRNWD AGFGGPGASS NPCSDSYHGP SANSEVEVKS IVDFIKSHGK VKAFITLHSY SQLLMFPYGY KCTKLDDFDE LSEVAQKAAQ SLRSLHGTTY KVGPICSVIY QASGGSIDWS YDYGIKYSFA FELRDTGRYG FLLPARQILP TAEETWLGLK AIMEHV RDHP YVDHHHHHHH
Characteristics:	Recombinant Human Carboxypeptidase A2/CPA2 (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	Carboxypeptidase A2 (CPA2)
Alternative Name:	Carboxypeptidase A2/CPA2 ( <a href="#">CPA2 Products</a> )
Background:	<p>Recombinant Human Carboxypeptidase A2/CPA2 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ser115-Tyr417) of Human CPA2 fused with a polyhistidine tag at the C-terminus.</p> <p>Carboxypeptidase A2 (CPA) is a secreted pancreatic procarboxy-peptidase that cleaves the C-terminal amide or ester bond of peptides that have a free C-terminal carboxyl group. The hydrolytic action of CPA2 was identified with a preference towards long substrates with aromatic AAs in their C-terminal end, particularly tryptophan. CPA2 comprises a signal peptide, a pro region and a mature chain, and can be activated after cleavage of the pro peptide. Three different forms of human pancreatic procarboxypeptidase A have been isolated, and the A1 and A2 forms are always secreted as monomeric proteins with different biochemical properties. In contrast to procarboxypeptidase B which was always secreted by the pancreas as a monomer, procarboxypeptidase A occurs as a monomer and/or associated to one or two functionally different proteins, such as zymogen E, and is involved in zymogen inhibition.</p>
Molecular Weight:	45.91 kDa
UniProt:	<a href="#">P48052</a>

## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150mM NaCl, pH 7.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>