

## 32-7533: Recombinant Human Carboxypeptidase A2/CPA2 (C-6His)

**Gene :** CPA2  
**Gene ID :** 1358  
**Uniprot ID :** P48052

### Description

Source: Human Cells.  
MW :45.91kD.

Recombinant Human Carboxypeptidase A2 is produced by our Mammalian expression system and the target gene encoding Leu17-Tyr417 is expressed with a 6His tag at the C-terminus. Carboxypeptidase A2 (CPA) is a secreted pancreatic procarboxypeptidase 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 amino acids 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. 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.  
**Amino Acid :** LETFVGDVLEIVPSNEEQIKNLLQLEAQEHLQLDFWKSPTTPGETAHVRVPFVNVQAVKVFLGSQ  
GIAYSIMIEDVQVLLDKENEEMLFNRRRERSGNFNGAYHTLEEISQEMDNLVAEHPGLVSKVNIGS  
SFENRPMNVLKFFSTGGDKPAIWLDAGIHAREWVTQATALWTANKIVSDYGKDPSITSILDALDIFLLP  
VTNPDGYVFSQTKNRMWRKTRSKVSGSLCVGVDPNRNWDAGFGGPGASSNPCSDSYHGPSAN  
SEVEVKSIVDFIKSHGKVAFITLHSYSQLLMFPYGYKCTKLDDFDELSEVAQKAAQSLRSLHGTTY  
KVGPICSVIYQASGGSIDWSYDYGKYSFAFELRDTGRYGFLLPARQILPTAEETWLGLKAIMEHVR  
DHPYVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 Åµg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.