

## 37-1230: Human Carboxypeptidase A2 / CPA2 Recombinant Protein (His Tag)(Discontinued)

**Reactivity :** Human  
**Alternative Name :** CPA2 Protein,

### Description

#### Source : HEK293 Cells

Carboxypeptidase A2 ( CPA2 ) is a secreted pancreatic procarboxy -peptidase, and 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.

### Product Info

**Amount :** Human Carboxypeptidase A2 / CPA2 Recombinant Protein (His Tag)(Discontinued) / 20 µg  
**Purification :** > 90 % as determined by SDS-PAGE  
**Content :** Formulation Lyophilized from sterile 25mM Tris, 0.15mM NaCl, pH 7.4  
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.  
**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.  
**Amino Acid :** Met1-Tyr417

### Application Note

Measured by its ability to cleave a colorimetric peptide substrate, N-acetyl-Phe-Thiaphe-OH , in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB), as measured using the wavelength at 405 nm and the extinction coefficient of 13,260 M<sup>-1</sup> cm<sup>-1</sup>. The specific activity is >4,000 pmoles/min/Åµg .

Endotoxin :< 1.0 EU per Åµg of the protein as determined by the LAL method

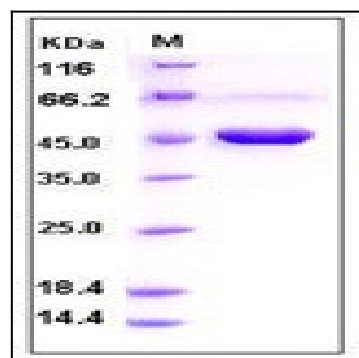


Fig 1: Human Carboxypeptidase A2 / CPA2 Recombinant Protein (His Tag)