Product Data:

Product SKU: RPES2616

Size: 10µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_001860.2

Protein Information:

Molecular Mass:	46 kDa
AP Molecular Mass:	46 kDa
Tag:	C-His
Bio-activity:	Measured by its ability to cleave a colorimetric peptide substrate, N-acetyl-Phe-Thiaphe-OH (N-Ac-PSP, Peptide International's Catalog# STP-3621-PI), 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 cm-The specific activity is >4,000 pmoles/min/µg.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile 25mM Tris, 0.15mM NaCl, pH 7.4
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Carboxypeptidase A2; CPA2

Sequence: Met 1-Tyr 417

Background:

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.