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Datasheet for ABIN7194599

Carboxypeptidase A2 Protein (His tag)

Overview

Quantity:	50 µg
Target:	Carboxypeptidase A2 (CPA2)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Carboxypeptidase A2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carboxypeptidase A2/CPA2 Protein (His Tag)(Active)
Sequence:	Met 1-Tyr 417
Characteristics:	A DNA sequence encoding the pre pro form of human CPA2 (NP_001860.2) (Met 1-Tyr 417) was expressed with a C-terminal polyhistidine tag.
Purity:	> 90 % 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, N-acetyl-Phe-Thiaphenol (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 ⁻¹ cm ⁻¹ . The specific activity is >4,000 pmoles/min/µg.

Target Details

Target:	Carboxypeptidase A2 (CPA2)
Alternative Name:	Carboxypeptidase A2/CPA2 (CPA2 Products)
Background:	<p>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.</p> <p>Synonym: Carboxypeptidase A2, CPA2</p>
Molecular Weight:	46 kDa
NCBI Accession:	NP_001860

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 Tris, 0.15 mM NaCl, pH 7.4
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>