Datasheet for ABIN7194596

CPA1 Protein (His tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	CPA1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CPA1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carboxypeptidase A1/CPA1 Protein (His Tag)(Active)
Sequence:	Met 1-Tyr 419
Characteristics:	A DNA sequence encoding the human CPA1 precursor (NP_001859.1) (Met 1-Tyr 419) was expressed with a C-terminal polyhistidine tag.
Purity:	> 97 % 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 the colorimetric peptide substrate Ac-Phe-Thiaphe-OH in the presence of 5,5'Dithiobis (2-nitrobenzoic acid) (DTNB). The specific activity is >3,500 pmoles/min/µg.

Target Details

Target:	CPA1

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Target Details

Alternative Name:	Carboxypeptidase A1/CPA1 (CPA1 Products)
Background:	Background: Carboxypeptidase A1 (CPA1)is secreted as a pancreatic procarboxypeptidase, and cleaves the C-terminal amide or ester bond of peptides that have a free C-terminal carboxyl group, with the preference of residues with aromatic or branched aliphatic side chains. CPA1 comprises a signal peptide, a pro region and a mature chain, and can be activated after cleavage of the pro peptide. 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. Three different forms of human pancreatic procarboxypeptidase A have been isolated. Synonym: Carboxypeptidase A1; CPA1; CPA
Molecular Weight:	47 kDa
NCBI Accession:	NP_001859

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.

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