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Datasheet for ABIN1096218

CPA1 Protein (AA 17-419) (His tag)

Overview

Quantity:	50 µg
Target:	CPA1
Protein Characteristics:	AA 17-419
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPA1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carboxypeptidase A1/CPA1 (C-6His)
Sequence:	KEDFVGHQVL RISVADEAQV QKVKELEDLE HLQLDFWRGP AHPGSPIDVR VPFPSIQAVK IFLESHGISY ETMIEDVQSL LDEEQEQMFA FRSRARSTDT FNYATYHTLE EIYDFLDLLV AENPHLVSKI QIGNTYEGRP IYVLKFSTGG SKRPAIWIDT GIHSREWVTQ ASGVWF AKKI TQDYGQDAAF TAILDTLDIF LEIVTNP DGF AFTHSTNRMW RKTRSHTAGS LCIGVDPNRN WDAGFGLSGA SSNPCSETYR GK FANSEVEV KSIVDFVKDH GNIKAFISIH SYSQLLMYPY GYKTEPVPDQ DELDQLSKAA VTALASLYGT KFNYSIIKA IYQASGSTID WTYSQGIKYS FTFELRDTGR YGFLLPASQI IPTAKETWLA LLTIMEHTLN HPYVDH HHHHH H
Characteristics:	Recombinant Human Carboxypeptidase A1/CPA1 (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CPA1
Alternative Name:	cpa1 (CPA1 Products)
Background:	<p>Recombinant Human Carboxypeptidase A1/CPA1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ala111-Tyr419) of Human CPA1 fused with a polyhistidine tag at the C-terminus.</p> <p>Carboxypeptidase A1 (CPA1) is secreted as a pancreatic peptidase that comes from the precursor form of inactive procarboxypeptidase. CPA1 comprises a signal peptide, a pro region and a mature chain, and can be activated after cleavage of the pro peptide. It has a free C-terminal carboxyl group, with the preference of residues with aromatic or branched aliphatic side chains. CPA1 cleaves the C-terminal amide or ester bond of peptides and involves in zymogen inhibition. Three different forms of human pancreatic procarboxypeptidase A have been isolated. 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.</p>
Molecular Weight:	46.57 kDa
UniProt:	P15085

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150mM NaCl, pH 7.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months