Recombinant Human CPA4, His-tagged

Cat. No. CPA4-7971H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Carboxypeptidase A4/CPA4 is produced with our mammalian cells expression system in HEK293. The target protein is expressed with sequence (Ser114Tyr421) of Human CPA4 fused with a polyhistidine tag at the Cterminus.
Species	Human
Source	HEK293
Description	Carboxypeptidases are zinccontaining exopeptidases that catalyze the release of carboxyterminal amino acids, and are synthesized as zymogens that are activated by proteolytic cleavage. Carboxypeptidases cleave amino acids from the Cterminus of proteins and peptides and many are metalloproteases. They have distinct expression patterns and different specificities for example, preferentially cleaving aromatic (carboxypeptidase As) or basic (carboxypeptidase Bs) residues. Several, such as carboxypeptidase Xs, have lost their catalytic activity. Carboxypeptidases play important roles in digestion of food, processing of bioactive peptides and blood coagulation. 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.
Form	Lyophilized from a 0.2 μM filtered solution of 20mM PB, 150mM NaCl, pH 7.4
AA Sequence	GQEKFFGDQV LRINVRNGDE ISKLSQLVNS NNLKLNFWKS PSSFNRPVDV

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	LVPSVSLQAF KSFLRSQGL EYAVTIEDLQ ALLDNEDDEM QHNEGQERSS NNFNYGAYHS LEAIYHEMDN I AADFPDLA RRVKIGHSFE NRPMYVLKFS TGKGVRRPAV WLNAGIHSRE WISQATAIWT AR KIVSDYQ RDPAITSILE KMDIFLLPVA NPDGYVYTQT QNRLWRKTRS RNPGSSCIGA DPN RNWNAS FAGKGASDNP
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Notes	For research use only.
Storage	Lyophilized protein should be stored at less than 20°C. though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C. for 2-7 days.Aliquots of reconstituted samples are stable at less than 20°C. for 3 months.

GENE INFORMATION

Gene Name	CPA4 carboxypeptidase A4 [Homo sapiens]
Official Symbol	CPA4
Synonyms	CPA4; carboxypeptidase A4; carboxypeptidase A3; CPA3;
Gene ID	51200
mRNA Refseq	NM_001163446
Protein Refseq	NP_001156918
MIM	607635
UniProt ID	Q9UI42

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Chromosome Location	7q32
Function	metal ion binding; metallocarboxypeptidase activity; metallopeptidase activity; peptidase activity; zinc ion binding;

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