

Carboxypeptidase A2/CPA2 Protein, Human (HEK293, His)

Cat. No.:	HY-P7733
Synonyms:	rHuCarboxypeptidase A2, His; Carboxypeptidase A2; CPA2
Species:	Human
Source:	HEK293
Accession:	AAP36067.1 (L17-Y417)
Gene ID:	1358
Molecular Weight:	Approximately 50.0 kDa

PROPERTIES

AA Sequence

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LET FVGDQVL  EIVPSNEEQI  KNLLQLEAQE  HLQLDFWKSP
TTPGETAHVR  VPFVNVQAVK  VFLGSQGIAY  SIMIEDVQVL
LDKENEEMLF  NRRRERSGNF  NFGAYHTLEE  ISQEMDNLVA
EHPGLVSKVN  IGSSFENRPM  NVLKFSTGGD  KPAIWLDAGI
HAREWVTQAT  ALWTANKIVS  DYGKDPSITS  ILDALDIFLL
PVTNPDGYVF  SQTKNRMWRK  TRSKVSGSLC  VGVDPNRNWD
AGFGGPGASS  NPCSDSYHGP  SANSEVEVKS  IVDFIKSHGK
VKAFITLHSY  SQLLMFPYGY  KCTKLDDFDE  LSEVAQKAAQ
SLRSLHGTKY  KVGPICSVIY  QASGGSIDWS  YDYGIKYSFA
FELRDTGRYG  FLLPARQILP  TAEETWLGLK  AIMEHVRDHP
YHHHHHH
  
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Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

There exists different forms of human pancreatic procarboxypeptidase A, and the A1 and A2 forms are always secreted as monomeric proteins with different biochemical properties^[1].

The hydrolytic action of CPA2 prefers 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^[2].

Carboxypeptidase A2 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^{[1][2]}.

REFERENCES

[1]. L Catasús, et al. The sequence and conformation of human pancreatic procarboxypeptidase A2. cDNA cloning, sequence analysis, and three-dimensional model. J Biol Chem

[2]. P Aloy, et al. Comparative analysis of the sequences and three-dimensional models of human procarboxypeptidases A1, A2 and B. Biol Chem. 1998 Feb;379(2):149-55.

Caution: Product has not been fully validated for medical applications. For research use only.

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