

CPA2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70072
Synonyms:	rMuCarboxypeptidase A2/CPA2, His; CPA2; Carboxypeptidase A2
Species:	Mouse
Source:	HEK293
Accession:	Q504N0 (Q17-Y417)
Gene ID:	232680
Molecular Weight:	41-50 kDa

PROPERTIES

AA Sequence

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Q E T F V G D Q V L   E V I P N D E E Q I   K T L L Q L E A E E   H L E L D F W K S P
S V P R Q T V H V R   V P F A S I Q D V K   V F L E S Q G I T Y   S I M I E D V Q V L
L D Q E R E E M L F   N Q Q R E R G T N F   N F G A Y H T L E E   I Y Q E M D N L V A
E N P G L V S K V N   I G S S F E N R P M   N V L K F S T G G D   K P A I W L D A G I
H A R E W V T Q A T   A L W T A N K I A S   D Y G T D P A I T S   L L N T L D V F L L
P V T N P D G Y V F   S Q T S N R M W R K   T R S K R S G S F C   V G V D P N R N W D
A N F G G P G A S S   N P C S D S Y H G P   S P N S E V E V K S   I V D F I K S H G K
V K A F I T L H S Y   S Q L L M F P Y G Y   K C A K P D D F N E   L D E V A Q R A A Q
S L K R L H G T S Y   K V G P I C S V I Y   Q A S G G S I D W A   Y D L G I K Y S F A
F E L R D T G Y Y G   F L L P A K Q I L P   T A E E T W L G L K   T I M E H V R D H P
Y

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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 from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
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 ddH ₂ O. 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

Carboxypeptidase A2 (CPA2) is a member of the carboxypeptidase family that encodes zinc metalloproteinases. The encoded preproprotein is treated with proteolysis to remove the N-terminal activating peptide and produce a functional enzyme. At present, three different forms of human pancreatic procarboxypeptidase A have been isolated. A1 and A2 are monomer proteins with different biochemical properties. The A2 form of pancreatic procarboxypeptidase acts on aromatic C-terminal residues. Substrate Inhibition Inhibition of aromatic n-acyldipeptide substrates and their ester analogs Apparent CPA2 is expressed by pancreatic exocrine cells, which secrete this enzyme during digestion. This gene is located in the carboxypeptidase gene cluster on chromosome 6. CPA2 is important in the process of degrading food proteins leading to the formation of amino acids. CPA2 also plays a role in the renin-angiotensin system^{[1][2][3]}.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA