

Carboxypeptidase A1/CPA1 Protein, Human (HEK293, His)

Cat. No.:	HY-P7732
Synonyms:	rHuCarboxypeptidase A1, His; Carboxypeptidase A1; CPA1; CPA
Species:	Human
Source:	HEK293
Accession:	AAH05279.1 (K17-Y419)
Gene ID:	1357
Molecular Weight:	Approximately 44.0 kDa

PROPERTIES

AA Sequence	<pre> K E D F V G H Q V L R I S V A D E A Q V Q K V K E L E D L E H L Q L D F W R G P A H P G S P I D V R V P F P S I Q A V K I F L E S H G I S Y E T M I E D V Q S L L D E E Q E Q M F A F R S R A R S T D T F N Y A T Y H T L E E I Y D F L D L L V A E N P H L V S K I Q I G N T Y E G R P I Y V L K F S T G G S K R P A I W I D T G I H S R E W V T Q A S G V W F A K K I T Q D Y G Q D A A F T A I L D T L D I F L E I V T N P D G F A F T H S T N R M W R K T R S H T A G S L C I G V D P N R N W D A G F G L S G A S S N P C S E T Y R G K F A N S E V E V K S I V D F V K D H G N I K A F I S I H S Y S Q L L M Y P Y G Y K T E P V P D Q D E L D Q L S K A A V T A L A S L Y G T K F N Y G S I I K A I Y Q A S G S T I D W T Y S Q G I K Y S F T F E L R D T G R Y G F L L P A S Q I I P T A K E T W L A L L T I M E H T L N H P Y </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

Carboxypeptidase A1 is encoded by the CPA1 gene cleaves the C-terminal amide or ester bond of peptides that have a free C-terminal carboxyl group. Carboxypeptidase A1 (CPA1) is synthesized as an inactive precursor, proCPA1, which is processed to the active enzyme by the proteolytic removal of the 95-amino acid N-terminal prodomain. Carboxypeptidase A1 prefers the C-terminal residues with aromatic or branched aliphatic side chains including Phe, Tyr, Trp, Leu or Ile^[1].

REFERENCES

- [1]. Samar Said, et al. Carboxypeptidase A1 and regenerating islet-derived 1 α as new markers for pancreatic acinar cell carcinoma. Hum Pathol . 2020 Sep;103:120-126.
- [2]. G K Smith, et al. Toward antibody-directed enzyme prodrug therapy with the T268G mutant of human carboxypeptidase A1 and novel in vivo stable prodrugs of methotrexate. J Biol Chem. 1997 Jun 20;272(25):15804-16.
-

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