

ACE/CD143 Protein, Human (His)

Cat. No.:	HY-P7992
Synonyms:	ACE, CD143, DCP, DCP1
Species:	Human
Source:	E. coli
Accession:	P12821 (L642-S1230)
Gene ID:	1636
Molecular Weight:	Approximately 68.0 kDa

PROPERTIES

AA Sequence	<div> L V T D E A E A S E T S K I L L Q K N I K K V Q D L E R A G S C L Q L E P D L F Y P K Y V E L I N L F Q E L Q P L Y L G N M W A Q T W S N F K E A D D F F T S A W D F Y N G K D F D L P V A L R E G A E G G S D E H D I N I T K E N Y N Q E W S S V P Y I R Y F V K E A G Q R L A T A F K P L L D W L R T </div> <div> K F V E E Y D R T S M Q I A N H T L K Y A L P A Q E L E E Y T N V M A T S R K Y Q A A R L N G Y V D N L H A Y V R R A L I Y D L V V P F P S L G L L P V P P E F R I K Q C T T V N L N P G F H E A I G D F L M K M A L D K I W S L R L K Y Q G L S F I I Q F Q F H E M K L G F S R P W P E N E L H G E K L G </div> <div> Q V V W N E Y A E A G T Q A R K F D V N N K I L L D M E T T E D L L W A W E G W A G D S W R S M Y E H R H Y G A Q H I N A P S M D T T E A M W N K S M L E K P T E D L V V A H H E M V L A L S V S T P K A F I P F S Y L V D C P P V P R T Q G D A L C Q A A G H T G E A M Q L I T G Q P W P Q Y N W T P N S </div> <div> N W N Y N T N I T T Q L Q N T T I K R I Y S V A T V C H P N R D K A G R A I L Q T P S L E Q D L E R L E G P I P A H L L L K Q G W T P R R M D G R E V V C H A S G H I Q Y F M Q Y K H L H S L N L L S S Q W R W R V F D G S F D P G A K F H I P P L H K C D I Y Q S N M S A S A M L S Y </div>
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DESCRIPTION

Background

ACE is a Zn^{2+} carboxydipeptidase which plays a key role in the regulation of blood pressure and also in the development of vascular pathologies and tissue remodeling. ACE is expressed as two isoforms: somatic ACE (sACE), which is responsible for its hypertensive properties, and a smaller isoform (testicular ACE), which is expressed solely in germinal cells^[1].

REFERENCES

[1]. Danilov SM, et al. Angiotensin I-converting enzyme Gln1069Arg mutation impairs trafficking to the cell surface resulting in selective denaturation of the C-domain. PLoS One. 2010;5(5):e10438. Published 2010 May 3.

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

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