

ACE2 Protein, Paguma larvata (HEK293, hFc)

Cat. No.:	HY-P700445
Synonyms:	Angiotensin-Converting Enzyme 2; ACE-Related Carboxypeptidase; Angiotensin-Converting Enzyme Homolog; ACEH; Metalloprotease MPROT15; ACE2
Species:	Others
Source:	HEK293
Accession:	Q56NL1 (Q18-T740)
Gene ID:	/
Molecular Weight:	112.7 kDa

PROPERTIES

AA Sequence

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QSTTEELAKT    FLETFNYEAQ    ELSYQSSVAS    WNYNTNITDE
NAKNMNEAGA    KWSAYYEEQS    KLAQTYPLAE    IQDAKIKRQL
QALQQSGSSV    LSADKSQRLN    TILNAMSTIY    STGKACNPNN
PQECLLLEPG    LDNIMENSKD    YNERLWAWEG    WRAEVGKQLR
PLYEEYVALK    NEMARANNYE    DYGDYWRGDY    EEEWTGGYNY
SRNQLIQDVE    DTFEQIKPLY    QHLHAYVRAK    LMDTYPSRIS
RTGCLPAHLL    GDMWGRFWTN    LYPLTVPPFGQ    KPNIDVTDAM
VNQNWDAARRI    FKEAEKFFVS    VGLPNMTQGF    WENSMLTEPG
DGRKVVCHPT    AWDLGGKDFR    IKMCTKVTMD    DFLTAHHEMG
HIQYDMAYAA    QPFLLRNGAN    EGFHEAVGEI    MSLSAATPNH
LKTIGLLSPA    FSEDNETEIN    FLLKQALTIV    GTLPFTYMLE
KWRWMVFKGA    IPKEQWMQKW    WEMKRNI VGV    VEPVPHDETY
CDPASLFHVA    NDYSFIRYYT    RTIYQFQFQE    ALCQIAKHEG
PLHKCDISNS    TEAGKKLLEM    LSLGRSEPWT    LALERVVGAK
NMNVTPLLNY    FEPLFTWLKE    QNRNSFVGWD    TDWRPYS DQS
IKVRISLKSA    LGEKAYEWN D    NEMYLFRSSI    AYAMREYFSK
VKNQTI PFVE    DNVVVS DLKP    RISFNFFVTF    SNNVSDVIPR
SEVEDAIRMS    RSRINDA FRL    DDNSLEFLGI    EPTLSPPYRP
PVT
  
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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 PBS, 6% Trehalose, pH 7.4.
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.
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

ACE2, an essential counter-regulatory carboxypeptidase in the renin-angiotensin hormone system, emerges as a pivotal regulator of blood volume, systemic vascular resistance, and cardiovascular homeostasis. Its multifaceted enzymatic activities include the conversion of angiotensin I to angiotensin 1-9, an anti-hypertrophic peptide in cardiomyocytes, and angiotensin II to angiotensin 1-7, a vasodilator with anti-proliferative properties that counterbalance the vasoconstrictor effects of angiotensin II. ACE2's repertoire extends to removing the C-terminal residue from vasoactive peptides such as neurotensin, kinetensin, and des-Arg bradykinin, while not affecting bradykinin. Additionally, ACE2 cleaves diverse biological peptides like apelins, casomorphins, and dynorphin A. Beyond its enzymatic roles, ACE2 assumes importance in amino acid transport, acting as a binding partner for the amino acid transporter SLC6A19 in the intestine, where it regulates trafficking, surface expression, and catalytic activity. In the context of microbial infection, ACE2 serves as a receptor for the human coronavirus SARS.

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

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