

## ACE2 Protein, Human (Biotinylated, HEK293, His-Avi)

<b>Cat. No.:</b>	HY-P70769
<b>Synonyms:</b>	Angiotensin-Converting Enzyme 2; ACE-Related Carboxypeptidase; Angiotensin-Converting Enzyme Homolog; ACEH; Metalloprotease MPROT15; ACE2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9BYF1 (Q18-S740)
<b>Gene ID:</b>	59272
<b>Molecular Weight:</b>	110-140 kDa

### PROPERTIES

#### AA Sequence

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QSTIEEQAKT   FLDKFNHEAE   DLFYQSSLAS   WNYNTNITEE
NVQNMNNAGD   KWSAFLKEQS   TLAQMYP LQE   IQNLTVKLQL
QALQQNGSSV   LSEDKSKRLN   TILNTMSTIY   STGKVCNPDN
PQECLLLEPG   LNEIMANSLD   YNERLWAWES   WRSEV GKQLR
PLYEEYVVLK   NEMARANHYE   DYGDYWRGDY   EVNGVDGYDY
SRGQLIEDVE   HTFEEIKPLY   EHLHAYVRAK   LMNAYPSYIS
PIGCLPAHLL   GDMWGRFWTN   LYSLTVPPFGQ   KPNIDVTDAM
VDQAWDAQRI   FKEAEKFFVS   VGLPNMTQGF   WENSMLTDPG
NVQKAVCHPT   AWDLGKGD FR   ILMCTKV TMD   DFLTAHHEMG
HIQYDMAYAA   QPFLLRNGAN   EGFHEAVGEI   MSLSAATPKH
LKSIGLLSPD   FQEDNETEIN   FLLKQALTIV   GTLPFTYMLE
KWRWMVFKGE   IPKDQWMKKW   WEMKREIVGV   VEPVPHDETY
CDPASLFHVS   NDYSFIRYYT   RTLYQFQFQE   ALCQAAKHEG
PLHKCDISNS   TEAGQKLFNM   LRLGKSEPWT   LALENVV GAK
NMNVRPL LNY   FEPLFTWLKD   QNKNSFVGWS   TDWSPYADQS
IKVRISLKSA   LGDKAYE WND   NEMYLFRSSV   AYAMRQYFLK
VKNQMILFGE   EDVRVANLKP   RISFNFFVTA   PKNVSDIIPR
TEVEKAIRMS   RSRINDA FRL   NDNSLEFLGI   QPTLGP PNQP
PVS
  
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<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 300 mM NaCl, 1 mM ZnCl <sub>2</sub> , 10% Glycerol, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	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

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extended storage. Avoid repeated freeze-thaw cycles.

**Shipping**

Shipping with dry ice

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**DESCRIPTION**

**Background**

Angiotensin-converting enzyme 2 (ACE2), a metallopeptidase, is the functional receptor for SARS-CoV. ACE2 can be immunoprecipitated by the S1 domain of the SARS-CoV virus and that ACE2 can promote viral replication. ACE2 is abundantly present in humans in the epithelia of lung and small intestine, which might provide possible routes of entry for the SARS-CoV. ACE2, previously identified as the cellular receptor for SARS-CoV, also acts as a receptor of the new coronavirus (SARS-CoV-2). ACE2 is also thought to be an essential regulator of cardiac function and blood pressure control, possibly by acting as a natural counterpart of ACE1<sup>[1][2]</sup>.

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**REFERENCES**

[1]. Hamming I, et, al. Tissue distribution of ACE2 protein, the functional receptor for SARS coronavirus. A first step in understanding SARS pathogenesis. J Pathol. 2004 Jun;203(2):631-7.

[2]. Yang J, et, al. Molecular interaction and inhibition of SARS-CoV-2 binding to the ACE2 receptor. Nat Commun. 2020 Sep 11;11(1):4541.

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

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