

Datasheet for ABIN1095957
ACE2 Protein (AA 18-740) (His tag)



[Go to Product page](#)

1 Publication

Overview

Quantity:	50 µg
Target:	ACE2
Protein Characteristics:	AA 18-740
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ACE2 protein is labelled with His tag.
Application:	Functional Studies (Func)

Product Details

Purpose:	Recombinant Human Angiotensin-Converting Enzyme 2/ACE-2 (C-6His)
Sequence:	QSTIEEQAKT FLDKFNHEAE DLFYQSSLAS WNYNTNITEE NVQNMNNAGD KWSAFLKEQS TLAQMYPLEQ IQNLTVKLQL QALQQNGSSV LSEDKSKRLN TILNTMSTIY STGKVCNPDN PQECLLLEPG LNEIMANSLD YNERLWAWES WRSEVGKQLR PLYEEYVVLK NEMARANHYE DYGDYWRGDY EVNGVDGYDY SRGQLIEDVE HTFEEIKPLY EHLHAYVRAK LMNAYPSYIS PIGCLPAHLL GDMWGRFWTN LYSLTVPGGQ KPNIDVTDAM VDQAWDAQRI FKEAEKFFVS VGLPNMTQGF WENSMLTDPG NVQKAVCHPT AWDLGKGDFR ILMCTKVTMD DFLTAHHEMG HIQYDMAYAA QPFLLRNGAN EGFHEAVGEI MSLSAATPKH LKSGILLSPD FQEDNETEIN FLLKQALTIV GTLPFTYMLE KWRWMVFKGE IPKDQWMKKW WEMKREIVGV VEPVPHDETY CDPASLFHVS NDYSFIRYYT RTLYQFQFQE ALCQAAKHEG PLHKCDISNS TEAGQKLFNM LRLGKSEPWT LALENVVGAK NMNVRPLLNY FEPLFTWLKD QNKNSFVGWS TDWSPYADQS

Product Details

IKVRISLKSA LGDKAYEWND NEMYLFRSSV AYAMRQYFLK VKNQMILFGE EDVRVANLKP
RISFNFFVTA PKNVSDIIPR TEVEKAIRMS RSRINDAFRL NDNSLEFLGI QPTLGPPNPQ
PVSVDHHHHH H

Characteristics:	Recombinant Human Angiotensin-Converting Enzyme 2/ACE-2 produced by transfected human cells is a secreted protein with sequence (Gln18-Ser740) of human ACE-2 fused with a polyhistidine tag at the C-terminus
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	ACE2
Alternative Name:	ace-2 (ACE2 Products)
Sub Type:	Fusionprotein
Background:	Angiotensin-Converting Enzyme 2 (ACE-2) is an integral membrane protein and a zinc metalloprotease of the ACE family, the ACE family includes somatic and germinal ACE. ACE-2 cleaves angiotensins I and II as a carboxypeptidase, ACE-2 converts angiotensin I to angiotensin 1-9, and angiotensin II to angiotensin 1-7. ACE-2 is also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. ACE-2 can be high expressed in testis, kidney and heart, in colon, small intestine and ovary at moderate levels. Captopril and lisinopril as the classical ACE inhibitor don't inhibit ACE-2 activity. ACE-2 may play an important role in regulating the heart function. Alternative Names: Angiotensin-Converting Enzyme 2, ACE-Related Carboxypeptidase, Angiotensin-Converting Enzyme Homolog, ACEH, Metalloprotease MPROT15, ACE2
Molecular Weight:	84.63 kDa
UniProt:	Q9BYF1
Pathways:	ACE Inhibitor Pathway , Peptide Hormone Metabolism , Regulation of Systemic Arterial Blood Pressure by Hormones , Feeding Behaviour

Application Details

Comment:	Biological activity: Specific Activity is > 800 pmol/min/µg as measured by its ability to cleave a
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Application Details

fluorogenic peptide substrate, Mca-YVADAPK(Dnp)-OH

Restrictions: For Research Use only

Handling

Format: Liquid

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 0.1 mM ZnCl₂, 10 % Glycerol, pH 7.5.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: -80 °C

Storage Comment: Store at < -20°C, stable for 6 months after receipt.
Please minimize freeze-thaw cycles.

Expiry Date: 6 months

Publications

Product cited in: Wu, Li, Xia, Tian, Kong, Wang, Gu, Zhang, Tu, Xie, Yang, Lu, Jiang, Ying: "Identification of Human Single-Domain Antibodies against SARS-CoV-2." in: **Cell host & microbe**, (2020) ([PubMed](#)).