

ACE2 active protein

Recombinant Human ACE2 Protein (Fc Tag)

CATALOG # AAA176999	HOST Human Cells
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PRODUCT SYNONYMS

ACE2; Recombinant Human ACE2 Protein (Fc Tag); Angiotensin-Converting Enzyme 2; ACE-Related Carboxypeptidase; Angiotensin-Converting Enzyme Homolog; ACEH; Metalloprotease MPROT15; ACE2 active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Supplied as a 0.2 uM filtered solution of 20mM Tris-HCl, 300mM NaCl, 1mM ZnCl ₂ , 10% Glycerol, pH 7.4.
Concentration	1.16mg/mL (varies by lot)
Sequence Positions	Gln18-Ser740
Sequence Length	805
Species	Human
Biological Activity	Immobilized Human ACE-2-Fc(Cat#) at 2ug/ml (100 ul/well) can bind 2019-nCoV S Protein RBD-SD1-mFc(Cat#). The ED50 of is 15.5 ng/ml.
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Fusion Tag	C-Fc
Preparation and Storage	Ships on blue ice. Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. This product is provided as liquid. Upon receipt; store it immediately at<-20°C.

ADDITIONAL INFORMATION

Related Product Information for ACE2 active protein	Protein Construction: Recombinant Human Angiotensin-Converting Enzyme 2 is produced by our Mammalian expression system and the target gene encoding Gln18-Ser740 is expressed with a Fc tag at the C-terminus. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11225609
NCBI GeneID	59272
NCBI Accession #	NP_068576.1
NCBI GenBank Nucleotide #	NP_068576.1

UniProt Accession #	Q9BYF1
Molecular Weight	Molecular Mass: 110.5 kDa Actual Protein Molecular Mass: 110-140 kDa
NCBI Official Full Name	angiotensin-converting enzyme 2
NCBI Official Synonym Full Names	angiotensin I converting enzyme 2
NCBI Official Symbol	ACE2
NCBI Official Synonym Symbols	ACEH
NCBI Protein Information	angiotensin-converting enzyme 2
UniProt Protein Name	Angiotensin-converting enzyme 2
UniProt Gene Name	ACE2
UniProt Synonym Gene Names	ACEH
UniProt Entry Name	ACE2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-active-protein/ace2/176999>