

## ACE2 active protein

Recombinant Human ACE2 Protein (Fc Tag)

|                               |                            |
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| CATALOG #<br><b>AAA176999</b> | HOST<br><b>Human Cells</b> |
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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 <sub>2</sub> , 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

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Related Product Information for ACE2 active protein | <p>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.</p> <p>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.</p> |
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### NCBI AND UNIPROT INFORMATION

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|---------------------------|-----------------------------|
| NCBI GI #                 | <a href="#">11225609</a>    |
| NCBI GeneID               | <a href="#">59272</a>       |
| NCBI Accession #          | <a href="#">NP_068576.1</a> |
| NCBI GenBank Nucleotide # | <a href="#">NP_068576.1</a> |

|                                  |                                                                         |
|----------------------------------|-------------------------------------------------------------------------|
| UniProt Accession #              | Q9BYF1                                                                  |
| Molecular Weight                 | Molecular Mass: 110.5 kDa<br>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://stage.aaabiotech.com/human-cells-active-protein/ace2/176999>