

## Active Recombinant Human ACE2 protein, His-tagged

Cat. No. ACE2-2165H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ACE2 protein(NP_068576.1)(Met1-Ser740), fused with His tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Ser740
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
<b>Bio-activity</b>	1. Measured by its binding ability in a functional ELISA. Immobilized 2019-nCoV Spike Protein (RBD, mFc Tag) at 2 µg/mL (100 µL/well) can bind human ACE2 protein (His tag), the EC <sub>50</sub> of ACE2 is 10-30 ng/mL. 2. Measured by its ability to cleave a fluorogenic peptide substrate, McaYVADAPK (Dnp)OH. The specific activity is >1000 pmols/min/µg.
<b>Molecular Mass</b>	The recombinant human ACE2 consists of 734 amino acids and predicts a molecular mass of 85.1 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.

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<b>Purity</b>	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC.
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	ACE2 angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 [ Homo sapiens ]
<b>Official Symbol</b>	ACE2
<b>Synonyms</b>	ACE2; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2; angiotensin-converting enzyme 2; metalloprotease MPROT15; ACE-related carboxypeptidase; angiotensin I converting enzyme 2; angiotensin-converting enzyme homolog; ACEH;
<b>Gene ID</b>	59272
<b>mRNA Refseq</b>	NM_021804
<b>Protein Refseq</b>	NP_068576
<b>MIM</b>	300335
<b>UniProt ID</b>	Q9BYF1

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