

Recombinant Human ACE2 Protein, Fc-tagged

Cat. No. ACE2-031H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human angiotensin-converting enzyme 2 (ACE2) extracellular domain (18-615) was expressed in CHO cells using a C-terminal Fc tag.
Species	Human
Source	CHO
ProteinLength	18-615
Description	The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. ACE2 is known to be expressed in various human organs, and its organ- and cell-specific expression suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronavirus HCoV-NL63 and the human severe acute respiratory syndrome coronaviruses, SARS-CoV and SARS-CoV-2, the latter is the causative agent of coronavirus disease-2019 (COVID-19). Multiple splice variants have been found for this gene and the dACE2 (or MIRb-ACE2) splice variant has been found to be interferon inducible.
Molecular Mass	~130 kDa
Purity	> 95 %

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Applications	ELISA
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot targets into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.2 µg/µL
Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 90 mM glycine.
GENE INFORMATION	
Gene Name	ACE2 angiotensin converting enzyme 2 [Homo sapiens (human)]
Official Symbol	ACE2
Synonyms	ACE2; angiotensin converting enzyme 2; ACEH; angiotensin-converting enzyme 2; ACE-related carboxypeptidase; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2; angiotensin I converting enzyme 2; angiotensin-converting enzyme homolog; angiotensin-converting enzyme-related carboxypeptidase; metalloprotease MPROT15; peptidyl-dipeptidase A; truncated angiotensin converting enzyme 2; EC 3.4.17.23
Gene ID	59272
mRNA Refseq	NM_021804
Protein Refseq	NP_068576

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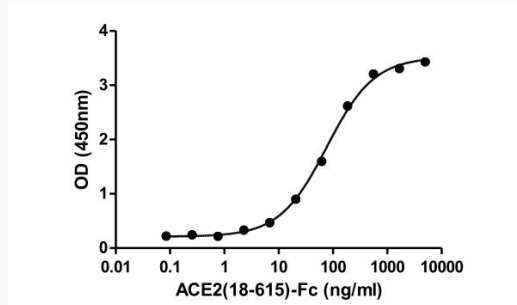
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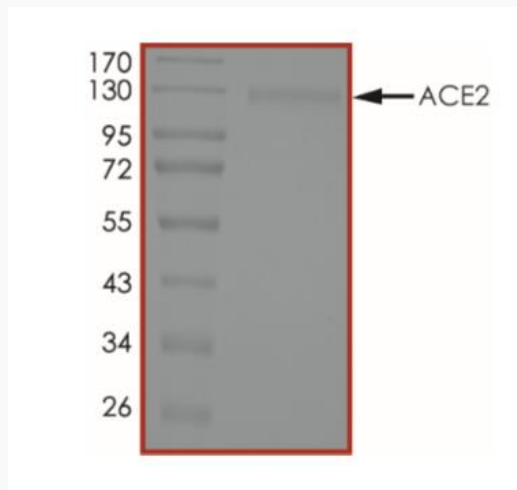
UniProt ID Q9BYF1

Activity



Measured by its binding ability in a functional ELISA. Immobilized 2019-nCoV spike protein RBD (His tag) at 2 µg/mL (100 µL/well) can bind to human ACE2(18-615) protein (Fc tag).

Purity



The purity of ACE2 was determined to be >95% by densitometry, approx. MW~130 kDa.

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