Recombinant Human ACE2 Protein, His-tagged

Cat. No. ACE2-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Angiotensin-converting enzyme 2 (ACE2) soluble form (Q9BYF1|19-615) with a C-terminal 10×His-tag was produced in Nicotiana benthamiana by Agrobacterium-mediated transient expression.
Species	Human
Source	Nicotiana Benthamiana
ProteinLength	19-615
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.
Form	Lyophilized

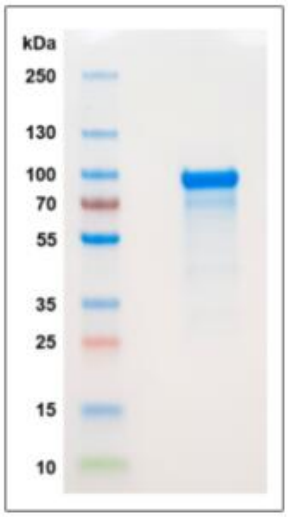
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Molecular Mass	71.2 kDa (+ Glycosylation)
Purity	95%
Storage	Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade. It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	20 mM HEPES pH7.5, 300 mM NaCl, 175 mM Trehalose.

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
MIM	300335

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UniProt ID	Q9BYF1
SDS-PAGE	 Reducing 4-20% SDS-PAGE analysis of 5 μg ACE2.

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