

# Recombinant Human ACE2 Protein (Fc Tag)

Catalog Number:PKSR030492



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

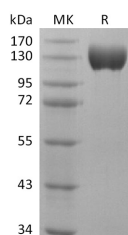
## Description

<b>Synonyms</b>	Angiotensin-Converting Enzyme 2;ACE-Related Carboxypeptidase;Angiotensin-Converting Enzyme Homolog;ACEH;Metalloprotease MPROT15;ACE2
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Gln18-Ser740
<b>Accession</b>	Q9BYF1
<b>Calculated Molecular Weight</b>	110.5 kDa
<b>Observed molecular weight</b>	110-140 kDa
<b>Tag</b>	C-Fc
<b>Bioactivity</b>	Immobilized Human ACE-2-Fc(Cat#PKSR030492) at 2µg/ml (100 µl/well) can bind 2019-nCoV S Protein RBD-SD1-mFc(Cat#PKSR030476). The ED50 of Recombinant 2019-nCoV S Protein RBD-mFc(Cat#PKSR030476) is 15.5 ng/ml.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 300mM NaCl, 10% Glycerol, 100mM Glycine, pH7.4.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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.

## For Research Use Only

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