

## Recombinant Human ACE2 Protein (Avi-His Tag)

Catalog Number: PKSR030493

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

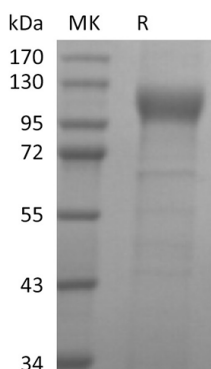
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human ACE2 protein Gln18-Ser740, with an C-terminal Avi & His
<b>Calculated MW</b>	86.2 kDa
<b>Observed MW</b>	110-140 kDa
<b>Accession</b>	Q9BYF1
<b>Bio-activity</b>	Immobilized 2019-nCoV S1 Protein-Fc(Cat#PKSR030480) at 2µg/ml (100 µl/well) can bind Biotinylated Human ACE-2-Avi-His (Cat#PKSR030493). The ED <sub>50</sub> of Biotinylated Human ACE-2-Avi-His (Cat#PKSR030493) is 0.17 ug/ml.

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<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, 1mM ZnCl <sub>2</sub> , 10% Glycerol, pH 7.4.

### 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 highly 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