

## Recombinant Human ACE2 Protein (His Tag)

**Catalog No.** PKSH032068

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

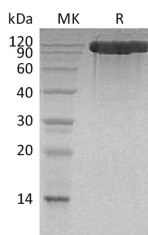
### Description

<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>	84.6 kDa
<b>Observed molecular weight</b>	103 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Loaded 2019-nCoV S Protein RBD-mFc on AMC Biosensor, can bind Human ACE-2-His with an affinity constant of 2.06 nM as determined in BLI assay.

### 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, 1mM ZnCl <sub>2</sub> , 10% Glycerol, pH 7.4.
<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

### For Research Use Only

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.