A Reliable Research Partner in Life Science and Medicine

# Recombinant Human ACE2 Protein (His Tag)

Catalog Number: PKSH032068

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

### Description

Species Human

Source HEK293 Cells-derived Human ACE2 protein Gln18-Ser740, with an C-terminal His

Calculated MW 84.6 kDa
Observed MW 103 kDa
Accession O9BYF1

Bio-activity 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**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Concentration** Subject to label value.

**Endotoxin**  $< 1.0 \text{ EU per } \mu\text{g of the protein as determined by the LAL method.}$ 

Storage Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

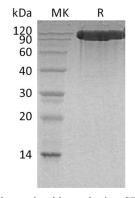
**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel

packs. Upon receipt, store it immediately at < - 20°C.

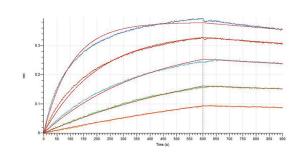
Formulation Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 300mM NaCl, 1mM ZnCl<sub>2</sub>,

10% Glycerol, pH 7.4.

# Data



> 95 % as determined by reducing SDS-PAGE.



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.

### 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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