### **Human ACE2/ACEH Protein**

ACE-HM401 Cat. No.



Description	
Source	Recombinant Human ACE2/ACEH Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Gln18-Ser740.
Accession	Q9BYF1-1
Molecular Weight	The protein has a predicted MW of 86.5 kDa. Due to glycosylation, the protein migrates to 95-110 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and Storage	

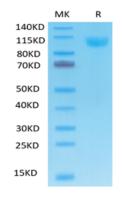
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please

### **Background**

ACE2 (Angiotensin I Converting Enzyme 2) is a Protein Coding gene. Diseases associated with ACE2 include Severe Acute Respiratory Syndrome and Neurogenic Hypertension. 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.

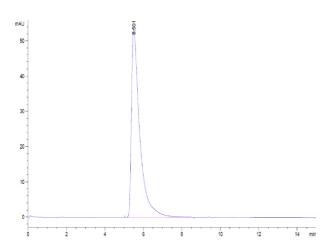
### **Assay Data**

### Tris-Bis PAGE



Human ACE2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



minimize freeze-thaw cycles.

The purity of Human ACE2 is greater than 95% as determined by SEC-HPLC

# KAGTUS

### **Assay Data**

### **ELISA Data**

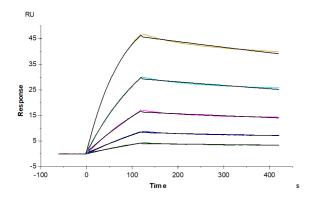
## **Human ACE2, His Tag ELISA** 0.5μg Human ACE2, His Tag Per Well

Wean Abs. (0D450)
1.51.00.5-

Log SARS-COV-2 Spike RBD, hFc Tag Conc.(μg/ml)

Immobilized Human ACE2, His Tag at  $5\mu g/ml$  ( $100\mu l/well$ ) on the plate. Dose response curve for SARS-COV-2 Spike RBD, hFc Tag with the EC50 of 7.4ng/ml determined by ELISA (QC Test).

### SPR Data



SARS-COV-2 Spike S1, hFc Tag captured on CM5 Chip via Protein A can bind Human ACE2, His Tag with an affinity constant of 3.80 nM as determined in SPR assay (Biacore T200).