

Human ACE2/ACEH Protein

Cat. No. ACE-HM201

Description

Source	Recombinant Human ACE2/ACEH Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln18-Ser740.
Accession	Q9BYF1-1
Molecular Weight	The protein has a predicted MW of 109.2 kDa. Due to glycosylation, the protein migrates to 115-130 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μm 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 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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

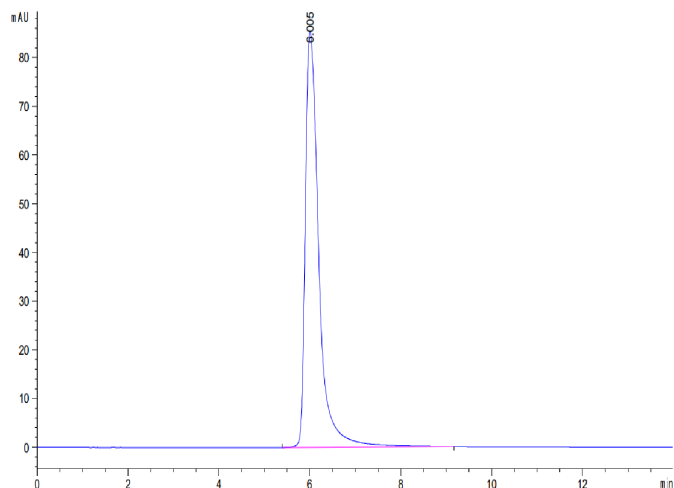
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

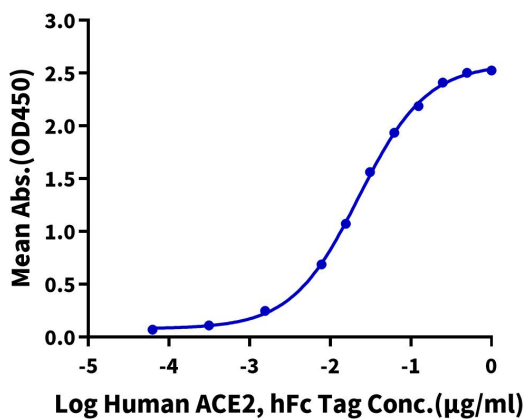


The purity of Human ACE2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human ACE2, hFc Tag ELISA

0.2µg SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer, His Tag Per Well



Immobilized SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 22.9ng/ml determined by ELISA.