

Human ACE2/ACEH Protein



Cat. No. ACE-HM101

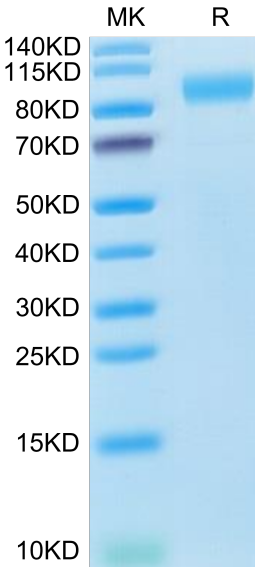
Description	
Source	Recombinant Human ACE2/ACEH Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln18-Ser740.
Accession	Q9BYF1-1
Molecular Weight	The protein has a predicted MW of 84.7 kDa. Due to glycosylation, the protein migrates to 85-110 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU 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 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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

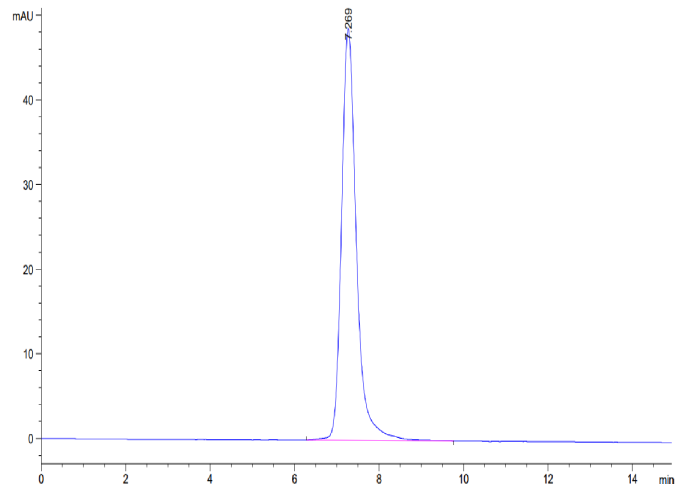
Bis-Tris PAGE



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

SEC-HPLC

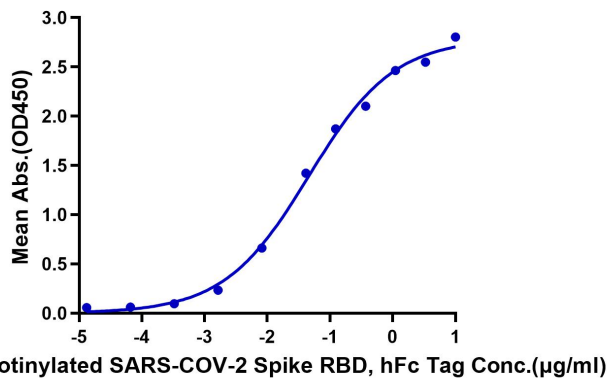
Assay Data



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

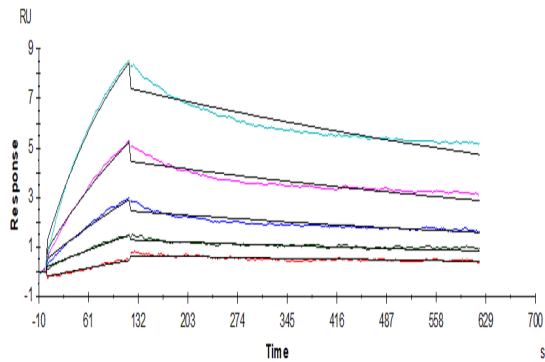
ELISA Data

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



Immobilized Human ACE2, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated SARS-COV-2 Spike RBD, hFc Tag with the EC50 of 46.2ng/ml determined by ELISA (QC Test).

SPR Data



SARS-COV-2 Spike RBD captured on Protein A chip, can bind Human ACE2, His Tag with an affinity constant of 11.9nM as determined in a SPR assay (Biacore T200).