

Biotinylated Human ACE2/ACEH Protein



Cat. No. ACE-HM501B

Description

Source	Recombinant Biotinylated Human ACE2/ACEH Protein is expressed from HEK293 with hFc (IgG1) tag and Avi tag at the C-Terminus.
	It contains Gln18-Ser740.
Accession	Q9BYF1-1
Molecular Weight	The protein has a predicted MW of 111.2 kDa. Due to glycosylation, the protein migrates to 115-125 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

Formulation and Storage

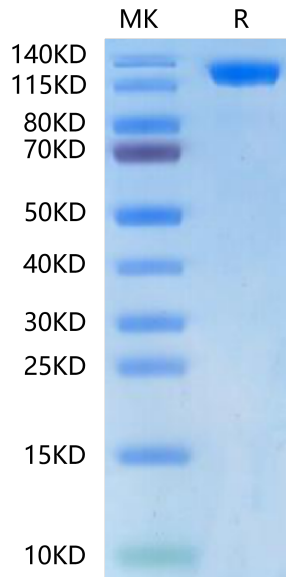
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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 carboxypeptidases 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

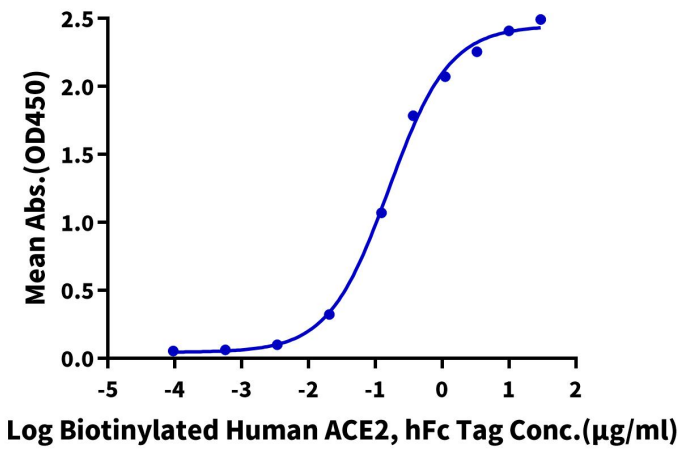


Biotinylated Human ACE2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

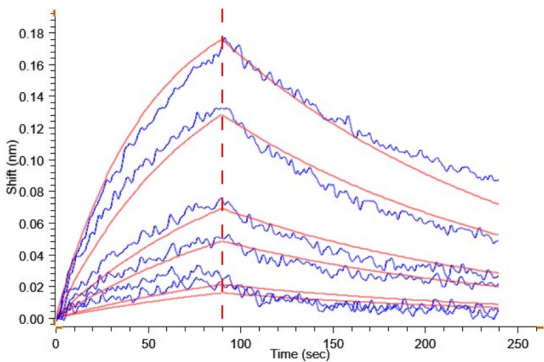
Biotinylated Human ACE2, hFc Tag ELISA

0.2µg SARS-COV-2 Spike S, hFc Tag Per Well



Immobilized SARS-COV-2 Spike S, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ACE2, hFc Tag with the EC50 of 0.16µg/ml determined by ELISA.

BLI Data



Loaded Biotinylated Human ACE2, hFc-Avi Tag on Streptavidin-Biosensor can bind SARS-COV-2 Spike S, hFc-Avi Tag with an affinity constant of 0.17 µM as determined in BLI assay (Gator® Prime).