

Biotinylated Recombinant Human ACE-2 Protein

Catalog No.: RP01266B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	59272	Q9BYF1

Tags

C-His&Avi

Synonyms

ACE2; ACEH; angiotensin-converting enzyme 2;ACEH

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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.

Basic Information

Description

Biotinylated Recombinant Human ACE-2 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gln18-Ser740) of Human ACE2 fused with a His tag and Avi tag at the C-terminal.

Bio-Activity

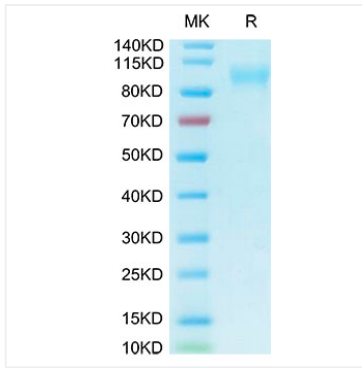
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

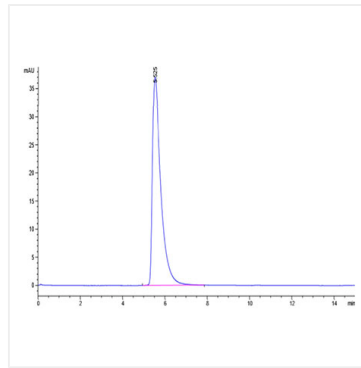
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

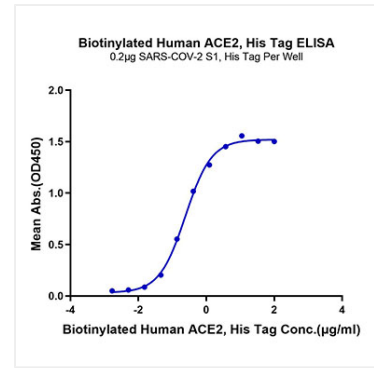
Validation Data



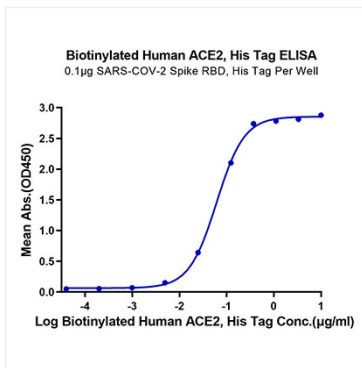
Biotinylated Human ACE2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized SARS-COV-2 S1, His Tag at $2\mu\text{g/ml}$ ($100\mu\text{l/Well}$). Dose response curve for Biotinylated Human ACE2, His Tag with EC_{50} of $0.24\mu\text{g/ml}$ determined by ELISA.



Immobilized SARS-COV-2 Spike RBD, His Tag at $1\mu\text{g/ml}$ ($100\mu\text{l/well}$) on the plate. Dose response curve for Biotinylated Human ACE2, His Tag with the EC_{50} of $0.06\mu\text{g/ml}$ determined by ELISA.