Biotinylated Recombinant Human ACE-2 Protein

Catalog No.: RP01266B

Sequence Information

Species
Human

Gene ID
59272

Swiss Prot
Q9BYF1

Tags
C-His&Avi

Synonyms
ACE2, ACEH, angiotensin-converting enzyme 2,ACEH

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW
86.5 kDa

Observed MW
95-110 kDa

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-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.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

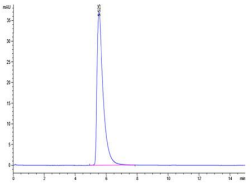
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

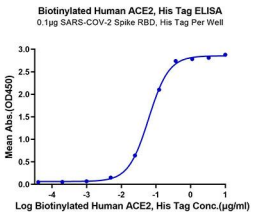
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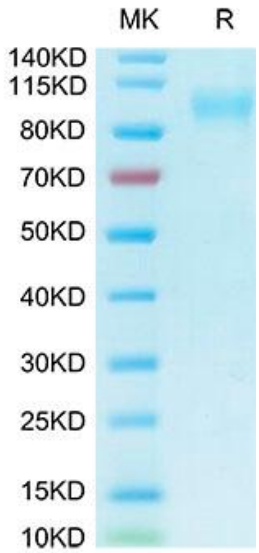
Validation Data



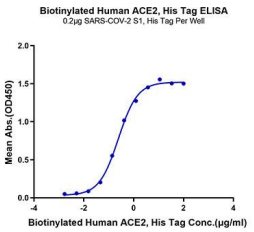
The purity of Biotinlylated human ACE2 is greater than 95% as determined by SEC-HPLC.



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



Biotinylated Recombinant Human ACE-2 Protein was determined by Tris-Bis PAGE under reducing conditions.



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