

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

Technical Data Sheet

Biotinylated Human ACE-2 Protein (N-His)

Catalog Number: 600003, 600004

Size: 25 ug, 100 ug

Target Name: ACE2, ACE-2, Angiotensin I converting Enzyme 2, ACEH

Regulatory Status: RUO

Product Details

Application: ELISA, BLI **Format:** Liquid, Biotinylated **Expression Host:** HEK293

Species: Human

Accession Number: Q9BYF1

Sources: Human ACE2 protein (Gln18-Ser740) with N-terminus His tag is expressed in HEK293

cells and Biotinylated in vitro.

Molecular Weight: This protein has a predicted molecular weight of 86.5 kDa. Under DTT-reducing

conditions, the protein migrates at approximately 90-100 kDa on SDS-PAGE.

Affinity Tag: N-His

Purity: >95% based on SDS-PAGE under reducing condition

Formulation: 1xPBS buffer, pH7.4, 0.22 µm filtered

Endotoxin level: Not tested

Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a

lot-specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4° C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <= -70° C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

Background Information

Angiotensin-converting enzyme 2 (ACE2) is a type I transmembrane zinc metalloprotease with about 60% homology to ACE, consisting of 805 amino acids including a signal peptide, catalytic domain, membrane anchor, and cytoplasmic tail. ACE2 regulates the renin-angiotensin system by converting angiotensin I to angiotensin 1-9 and angiotensin II to the vasodilator angiotensin 1-7, thus counteracting vasoconstriction and playing a key role in cardiovascular and renal function. ACE2 also serves as the functional receptor for human coronaviruses SARS-CoV, SARS-CoV-2, and HCoV-NL63, facilitating viral entry. Its expression is high in lung, heart, kidney, intestine, testis, and vascular cells. Beyond cardiovascular regulation, ACE2 is involved in respiratory disease pathogenesis, including acute respiratory distress syndrome, and has been linked to diabetes and hypertension. Additionally, its homolog collectrin is implicated in amino acid transport and genetic

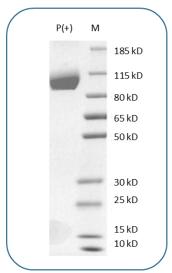


disorders like Hartnup disease.

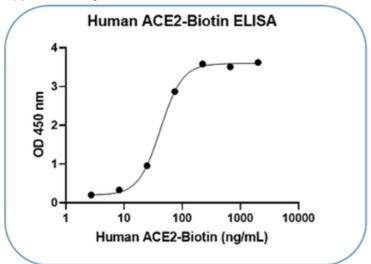
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Biotinylated Human ACE2 (N-His) Protein on SDS-PAGE under reducing conditions. The gel was stained for 1 hour with BlinkBlue Protein Staining Buffer (Catalog 700102). The purity of this protein appears to be greater than 95%.



Recombinant SARS-CoV-2 Spike Trimer protein (Catalog #603701) is coated at 2ug/mL (200ng/well). Biotinylatged Human ACE2 (N-His) protein can bind spike trimer in the dose-dependent manner (Quality tested).