

HUMAN ACE2 PROTEIN, HIS TAG

Cat.#: 11296

Product Name: Human ACE2 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: ACE-2;CEH;CE2

Target: ACE2

UNIPROT ID: Q9BYF1

Description: Recombinant Human ACE2 Protein with N-terminal 6xHis tag

Background: 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. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS and HCoV-NL63.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 84.4 kDa after removal of the signal peptide. The apparent molecular mass of His-ACE2 is approximately 100-130 kDa due to glycosylation.

Molecular Characterization: 6xHis ACE2(Gln18-Ser740)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

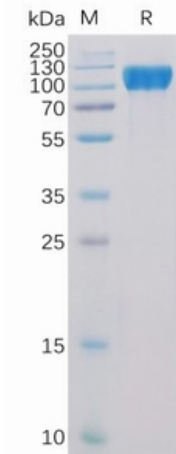


Figure 1. Human ACE2 Protein, His Tag on SDS-PAGE under reducing condition.

Human ACE2, His Tagged protein ELISA

0.2 µg of ACE2, His Tagged protein per well

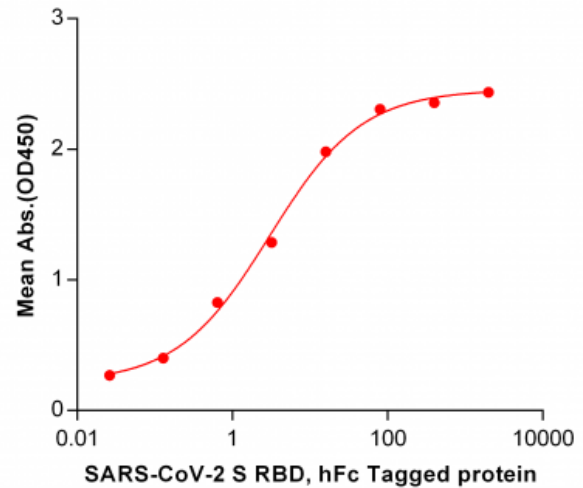


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human ACE2, His Tagged protein can bind S-RBD, hFc tagged protein 11295 in a linear range of 0.128-80.0 ng/ml.