HUMAN ACE2 PROTEIN, HFC TAG

Cat.#: 11196
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 C-terminal human Fc 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 109.7 kDa after removal of the signal peptide.
Molecular Characterization: ACE2(Gln18-Ser740) hFc(Glu99-Ala330)
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.

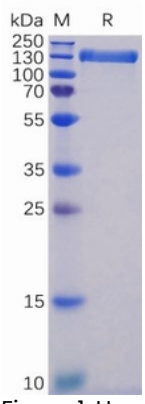

Figure 1. Human ACE2 Protein, hFc Tag on SDS-PAGE under reducing condition.

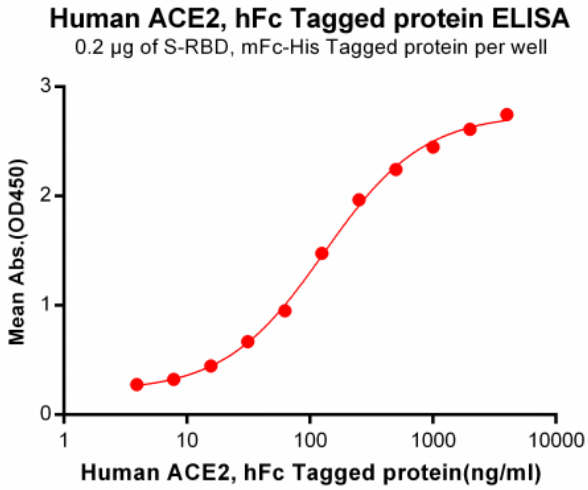

Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) S-RBD, mFc-His tagged protein [getskuurl sku=(11272)] can bind Human ACE2, hFc Tagged protein (11196) in a linear range of 0.488-49.83 ng/ml.