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Recombinant Human Angiotensin Converting Enzyme 2 (18-615 a.a.)

CLENZ1121
CLENZ1121-2
CLENZ1121-3

Introduction: ACE2 (Angiotensin converting enzyme 2) an enzyme bound to cell membranes in various organs such as intestines, arteries, lungs, heart & kidney. ACE2 an entry receptor of SARS coronaviruses as well as SARS-CoV-2. The coronavirus spike (S) glycoprotein is a class I viral fusion antigen located on the external envelope of the virion that takes part in a critical part in viral infection by identifying host cell receptors and facilitating fusion of the viral and cellular membranes. 2 main domains in coronavirus S1 have been recognized, the N-terminal domain and C-terminal domain. One or the other and/or both S1 domains function as a receptor-binding domain. SARS-CoV + MERS-CoV equally use C-domain to attach their receptors. ACE-2 is a type I transmembrane antigen with an extracellular N-terminal domain having the catalytic site and an intracellular C-terminal tail. ACE2 obtains a signal peptide, a transmembrane domain, and a single metalloproteinase active site containing an HEXXH zinc-binding domain. ACE-2 plays a role as a mono-carboxypeptidase which degrades Ang I to produce the nonapeptide Ang 1-9 and Ang II to create the heptapeptide Ang 1-7.

Description: The CHO derived ACE2 Human recombinant protein contains the extracellular domain amino acids 18- 615 fused to Fc tag at C-terminal. ACE2 Protein binds to SARS Coronavirus-2 [CoV-2019] Spike receptor binding domain.

Source: CHO Cells.

Purification Method: Purified by Protein-G chromatographic technique.

Presentation: 1 µg (CLENZ1121), 5 µg (CLENZ1121-2), or 10 µg (CLENZ1121-3), sterile filtered clear solution. ACE2 Human protein solution is supplied in 50mM Tris-HCl, pH7.5, and 90mM glycine.

Stability: Store at -20°C.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Biological Activity: ACE2 activity was measured by its binding ability in a functional ELISA. The immobilized Recombinant Human ACE2 protein binds to SARS CoV2 Spike protein Receptor Binding Domain at 2 µg per ml.

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