
Product Data Sheet

Product Name: ACE2 (19-740) Human

Cat. No.: GP26115

Batch No.: 1

Product Data

Purity >98%

Source CHO Cells

Physical
Appearance solidShipping
Condition withIcePacks

Formulation ACE2 Humanprotein solution is supplied in 50mM Tris-HCl, pH7.5, and 90mM glycine.

Introduction

ACE-2 (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.ACE2 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.

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 proteinReceptor Binding Domain at 2ug per ml.

Stability

ACE-2 Human RecombinantProtein is shipped on ice packs. Upon arrival, Store at -20°C.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

The CHO derived ACE2 Human recombinant protein contains the extracellular domain amino acids 19-740 fused to Fc tag at C-terminal. ACE2 Protein binds to SARS Coronavirus-2 [CoV-2019] Spike receptor binding domain.

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