

---

## Product Data Sheet

---

Product Name: ACE2 (18-740) Human, Biotin  
 Cat. No.: GP26118  
 Batch No.: 1

### Product Data

Purity	>98%	Source	HEK293Cells
Physical Appearance	solid	Shipping Condition	withIcePacks
Formulation	ACE2 Humanprotein solution is supplied in 50mM Tris, pH7.5, 150mM NaCl and 20% glycerol.		

### 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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

The addition of 0.1% albumin is highly recommended for long term storage use.

### Background

The HEK293 derived ACE2 Human recombinant biotinylated protein contains the amino acids Gln 18-Ser 740 fused to His-AVI tag at C-terminal having a predicted Mw of 87.2 kDa ( migrates 95-125 kDa under reducing conditions on sds-page due to glycosilation).ACE2 Protein binds to SARS Coronavirus-2 [ CoV-2019 ] Spike receptor binding domain.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**