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**Product Data Sheet**


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Product Name: ACE2 (18-740) Human

Cat. No.: GP26116

Batch No.: 1

**Product Data**

Purity &gt;98% Source HEK293Cells

Physical Appearance solid Shipping Condition withIcePacks

Amino Acid Sequence

DGS QSTIEEQ AKTFLDKFNH EAEDLFYQSS LASWNYNTNI TEENVQNMNN  
 AGDKWSAFLK EQSTLAQMYP LQEIQNLTVK LQLQALQQNG SSVLSEDKSK  
 RLNTILNTMS TIYSTGKVCN PDNPQECLLL EPGLNEIMAN SLDYNERLWA  
 WESWRSEVGK QLRPLYEEYV VLKNEMARAN HYEDYGDYWR GDYEVNGVDG  
 YDYSRGQLIE DVEHTFEEIK PLYEHLHAYV RAKLMNAYPS YISPIGCLPA  
 HLLGDMWGRF WTNLYSLTVP FGQKPNIDVT DAMVDQAWDA QRIFKEAEKF  
 FVSVGLPNMT QGFWENSMLT DPGNVQKAVC HPTAWDLGKG DFRILMCTKV  
 TMDDFLTAHH EMGHIQYDMA YAAQPFLLRN GANEGFHEAV GEIMLSAAT  
 PKHLKSIGLL SPDFQEDNET EINFLLKQAL TIVGTLPTTY MLEKWRWMVF  
 KGEIPKDQWM KKWWEMKREI VGVVEPVPHD ETYCDPASLF HVSNDYSFIR  
 YYTRTLYQFQ FQEALCQAAK HEGPLHKCDI SNSTEAGQKL FNMLRLGKSE  
 PWTLALENVV GAKNMNVRPL LNYFEPLFTW LKDQNKNSFV GWSTDWSPYA  
 DQSIKVRISL KSALGDKAYE WNDNEMYLFR SSVAYAMRQY FLKVKNQMIL  
 FGEEDVRVAN LKPRISFNFF VTAPKNVSDI IPRTEVEKAI RMSRSRINDA  
 FRLNDNSLEF LGIQPTLGPP NQPPVSLEPK SCDKTHTCPP CPAPELLGGP  
 SVFLFPPKPK DTLMISRTPE VTCVVVDVSHEDPEVKFNWY VDGVEVHNAK  
 TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK  
 AKGQPREPQVYTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE  
 NNYKTTTPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVMHEALHNHYTQ  
 KSLSLSPGKH HHHHH

Formulation ACE2 Humanprotein 0.5mg/ml solution is supplied in PBS, pH7.4, and 10% 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

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

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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

Determined by its binding ability in a functional ELISA using SARS-CoV-2 Spike RBD. The ED50 range  $\leq 100$  ng/ml. Specific activity is  $> 250$  pmol/min/ $\mu$ g, and is defined as the amount of enzyme that hydrolysis 1.0 pmole of Mca-YVADAPK(Dnp)-OH / min. at pH-7.5, at 25°C

### Stability

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

### Background

The HEK293 derived ACE2 Human recombinant protein contains the amino acids 18-740 fused to IgG-His tag ( 242 a.a. ) at N-terminal having a total Mw of 110.8 kDa. ACE2 Protein binds to SARS Coronavirus-2 [ CoV-2019 ] Spike receptor binding domain.

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