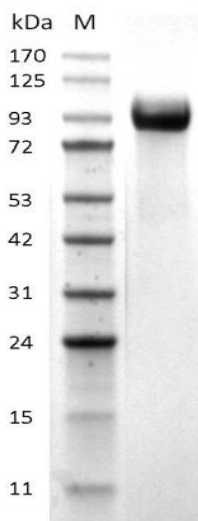


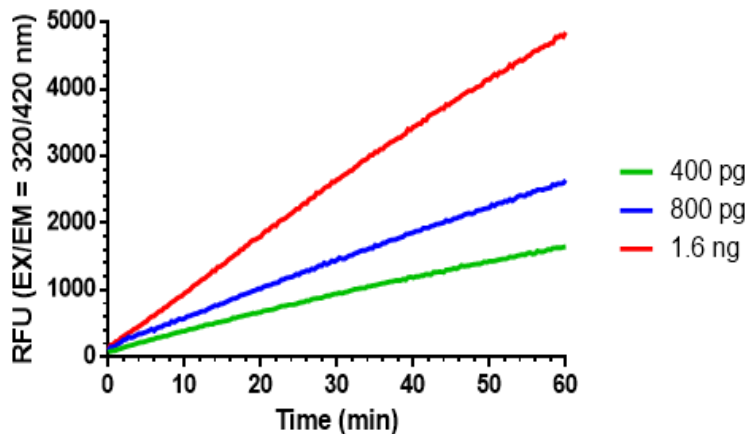
# Human CellExp™ ACE2, Human Recombinant

rev 12/20

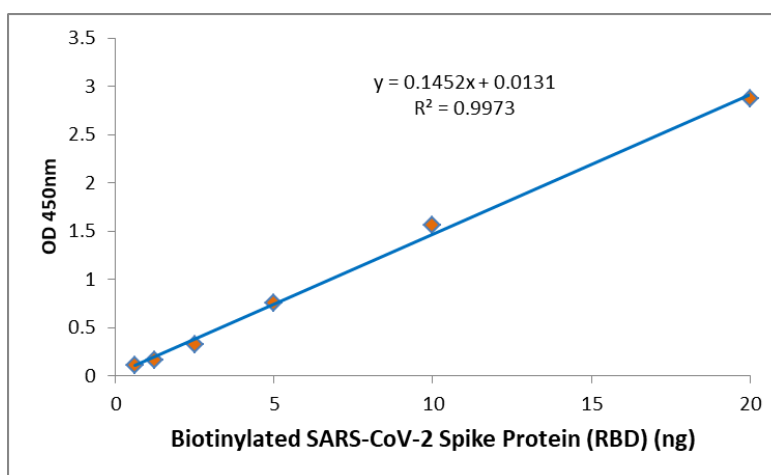
<b>CATALOG NO:</b>	P1535-10    10 µg P1535-50    50 µg
<b>ALTERNATE NAMES:</b>	Angiotensin-Converting Enzyme 2, ACE-Related Carboxypeptidase, Angiotensin-Converting Enzyme Homolog, ACEH, Metalloprotease MPROT15, ACE2
<b>MOL. WT.</b>	84 kDa (N-terminal 6x His-tag)
<b>SOURCE:</b>	HEK 293 Cells
<b>PURITY:</b>	> 95% SDS-PAGE
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	0.22 µm Filtered 20 mM Tris-HCl, 150 mM NaCl, 0.1 mM ZnCl <sub>2</sub> , 10% Glycerol, pH 7.5
<b>SPECIFIC ACTIVITY:</b>	The specific activity is > 1 U/mg, which was assayed using BioVision's Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric, BioVision Catalog # K897-100).
<b>UNIT DEFINITION:</b>	One unit is defined as the amount of enzyme that generates 1.0 µmol of substrate per min under the assay conditions.
<b>STORAGE CONDITIONS:</b>	For long term storage, aliquot and store at -20 °C. Avoid repeated freeze-thaw cycles.
<b>DESCRIPTION:</b>	Angiotensin converting enzyme 2 (ACE2) is a receptor for SARS-CoV and SARS-CoV-2 (the virus causing coronavirus disease 2019, COVID-19). The spike protein of SARS-CoV recognizes ACE2 as its receptor during the first step in viral entry. ACE2 converts angiotensin I to angiotensin 1-9, a nine-amino acid peptide with anti-hypertrophic effects in cardiomyocytes, and angiotensin II to angiotensin 1-7, a vasodilator. It cleaves other biological peptides, such as apelins, casomorphins and dynorphin A with high efficiency. Antibodies targeting ACE2 and spike protein receptor binding domain (RBD) interaction could be used to block SARS-CoV-2 viral entry thereby suppress virus replication.
<b>AMINO ACID SEQUENCE:</b>	aa Gln 18 - Ser 740



**Fig. A. SDS-PAGE (4-20%) of Recombinant ACE2:** Recombinant protein loaded was under reducing conditions and stained with Coomassie Blue.



**Fig. B. Specific activity:** The specific activity is > 1 U/mg, which was assayed using BioVision's Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric, BioVision Catalog # K897-100).



**Fig.C. Biological activity:** Recombinant Human ACE-2 (50 ng) binds biotinylated Recombinant SARS-CoV-2 Spike Protein (RBD) in a functional ELISA.

#### RELATED PRODUCTS:

- ACE2 (Human) ELISA Kit (E4528)
- Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric) (K897)
- Angiotensin III (Ang III)(Human) ELISA Kit (E4536)
- Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit (K310)
- ACE Antibody (CT) (6703)
- Human CellExp™ SARS-CoV-2 Spike Protein (RBD 310-568), Recombinant (P1543)
- Human CellExp™ SARS-CoV-2 Spike Protein (RBD; 331-524), Recombinant (P1544)

**FOR RESEARCH USE ONLY! Not to be used on humans.**