



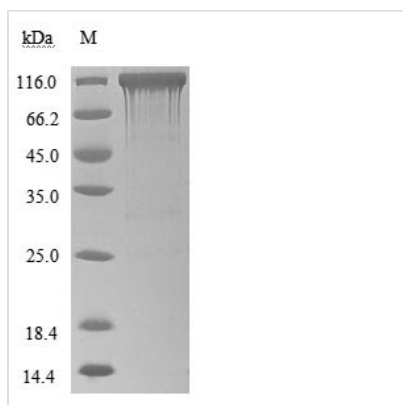
# Recombinant Human Angiotensin-converting enzyme 2 (ACE2), partial (Active)

<b>Product Code</b>	CSB-MP866317HU
<b>Abbreviation</b>	Recombinant Human ACE2 protein, partial (Active)
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9BYF1
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered PBS, 6% Trehalose, pH 7.4
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	<p>① Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S (CSB-MP3324GMY) at 2 μg/ml can bind human ACE2, the EC<sub>50</sub> of human ACE2 protein is 56.64 - 103.6 ng/ml</p> <p>② Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) at 5 μg/ml can bind human ACE2, the EC<sub>50</sub> of human ACE2 protein is 31.80 - 44.69 ng/ml.</p> <p>③ Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (CSB-MP3324GMY1b1) at 5 μg/ml can bind human ACE2, the EC<sub>50</sub> is 2.785-9.139 ng/ml.</p> <p>④ Measured by its binding ability in a functional ELISA. Immobilized human ACE2 at 2 μg/ml can bind SARS-CoV-2-S1-RBD (CSB-MP3324GMY1), the EC<sub>50</sub> of human ACE2 protein is 8.363-12.82 ng/ml.</p> <p>⑤ SARS-CoV-2 Spike protein RBD his/sumostar tag (CSB-YP3324GMY1) captured on COOH chip can bind Human ACE2 protein Fc tag (CSB-MP866317HU) with an affinity constant of 100 nM as detected by LSPR Assay.</p> <p>⑥ SARS-CoV-2 Spike protein RBD his/myc tag (CSB-MP3324GMY1b1) captured on COOH chip can bind Human ACE2 protein Fc tag (CSB-MP866317HU) with an affinity constant of 13.8 nM as detected by LSPR Assay.</p>
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	<p>QSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNNAAGDKW  SAFLKEQSTLAQMYPQLQEIQNLTVKLLQLALQQNGSSVLSSEDKSKRLNTILNTM  STIYSTGKVCNPDNPQECLLLEPGLNEIMANSLDYNERLWAWESWRSEVVGKQ  LRPLYEEYVVLKNEMARANHIEDYGDYWRGDYEVNGVDGYDYSRGQLIEDV  EHTFEEIKPLYEHLHAYVRKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLY  SLTVPFQKPNIDVTDAMVDQAWDAQRFKEAEKFFVSVGLPNMTQGFWENS  MLTDPGNVQKAVCHPTAWDLGKGFRLMCTKVTMDDFLTAHHEMGIHQYD  MAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKSIGLLSPDFQEDNETEI  NFLKQALTIVGTLPFTYMLEKWRWMVFKGEIPKDQWMKKWWEMKREIVGVV</p>

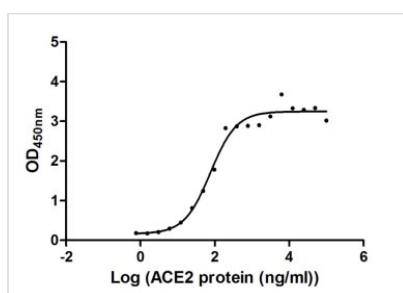


EPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEALCQAAKHEGPLHK  
 CDISNSTEAGQKLFNMLRLGKSEPWTALENVVGAKNMNVRPLLNYFEPLFT  
 WLKDQNKNSFVGWSTDWSPYADQSIKVRISLKSALGDKAYEWNDNEMYLFR  
 SSVAYAMRQYFLKVKNQMILFGCEEDVRVANLKPRIFFVTAPKNVSDIIPRT  
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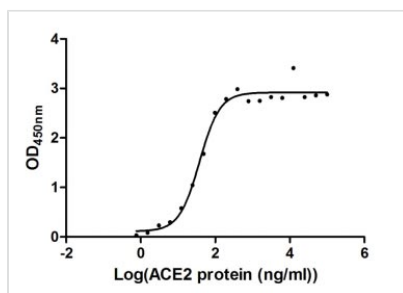
<b>Source</b>	Mammalian cell
<b>Target Names</b>	ACE2
<b>Expression Region</b>	18-740aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal hFc1-tagged
<b>Mol. Weight</b>	112.5 kDa
<b>Protein Length</b>	Partial

**Image**


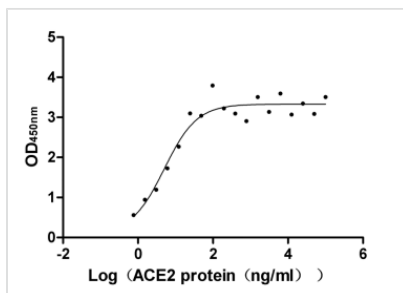
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



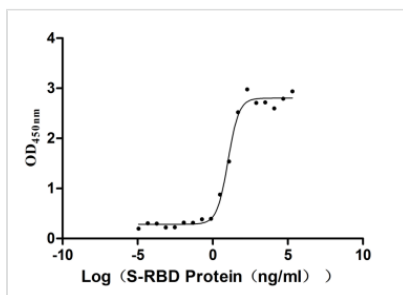
**Activity**  
 Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S (CSB-MP3324GMY) at 2 µg/ml can bind human ACE2, the EC<sub>50</sub> of SARS-CoV-2-S protein is 56.64 - 103.6 ng/ml.



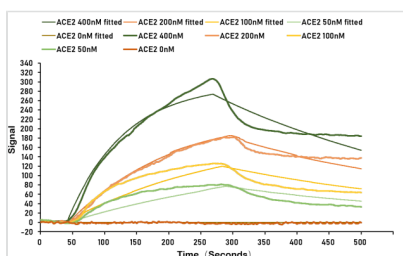
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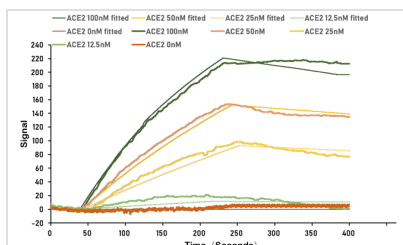
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## Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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