



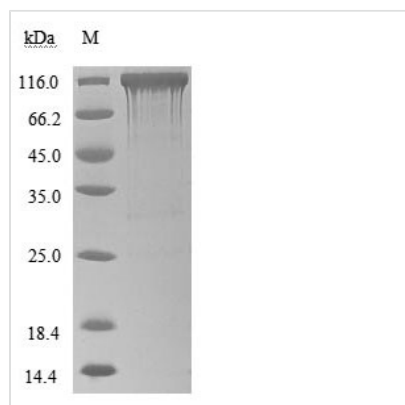
Recombinant Human Angiotensin-converting enzyme 2 (ACE2), partial (Active)

Product Code	CSB-MP866317HU
Abbreviation	Recombinant Human ACE2 protein, partial (Active)
Storage	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.
Uniprot No.	Q9BYF1
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Others
Immunogen Species	Homo sapiens (Human)
Biological Activity	<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 EC₅₀ 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 EC₅₀ 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 EC₅₀ 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 EC₅₀ 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>
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	<p>QSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNNAAGDKW SAFLKEQSTLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSSEDKSKRLNTILNTM STIYSTGKVCNPDNPQECLLLEPGLNEIMANSLDYNERLWAWESWRSEVVGKQ LRPLYEEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDV EHTFEEIKPLYEHLHAYVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLY SLTVPFGQKPNIDVTDAMVDQAWDAQRFKEAEKFFVSVGLPNMTQGFWENS MLTDPGNVQKAVCHPTAWDLGKGFRLMCTKVTMDDFLTAHHEMGGHIQYD MAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKSIGLLSPDFQEDNETEI NFLKQALTIVGTLPFTYMLEKWRWMVFKGEIPKDQWMKKWWEMKREIVGVV</p>

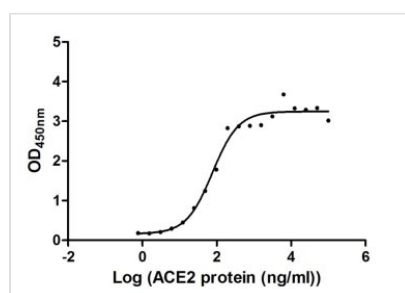


EPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEALCQAAKHEGPLHK
 CDISNSTEAGQKLFNMLRLGKSEPWTALENVVGAKNMNVRPLLNYFEPLFT
 WLKDQNKNSFVGWSTDWSPYADQSIKVRISLKSALGDKAYEWNDNEMYLFR
 SSVAYAMRQYFLKVKNQMILFGCEEDVRVANLKPRIFFVTAPKNVSDIIPRT
 EVEKAIRMRSRINDAFRLNDNSLEFLGIQPTLGPPNQPPVS

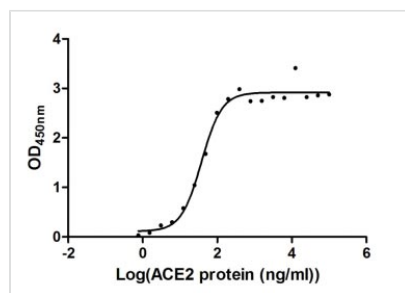
Source	Mammalian cell
Target Names	ACE2
Expression Region	18-740aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal hFc1-tagged
Mol. Weight	112.5 kDa
Protein Length	Partial

Image


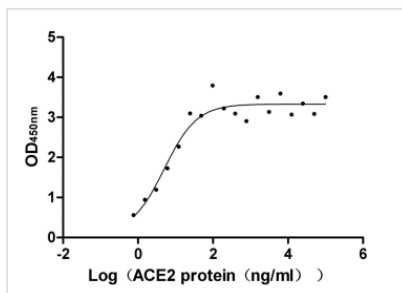
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



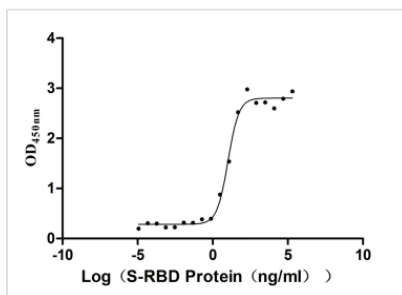
Activity
 Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S (CSB-MP3324GMY) at 2 µg/ml can bind human ACE2, the EC₅₀ of SARS-CoV-2-S protein is 56.64 - 103.6 ng/ml.



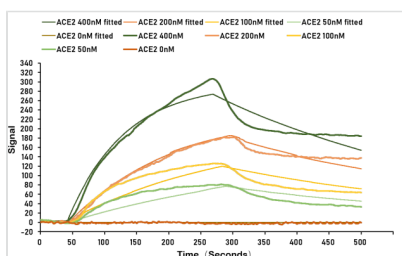
Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) at 5 µg/ml can bind human ACE2, the EC₅₀ of human ACE2 protein is 31.80 - 44.69 ng/ml.



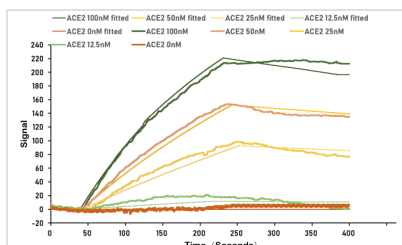
Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (CSB-MP3324GMY1b1) at 5 µg/ml can bind human ACE2, the EC₅₀ is 2.785-9.139 ng/ml.



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 EC₅₀ of human ACE2 protein is 8.363-12.82 ng/ml.



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.



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.

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

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.