

## Product Datasheet

### Human ACE2 protein (orb705345)

<b>Catalog Number</b>	orb705345
<b>Category</b>	Proteins
<b>Description</b>	This Human ACE2 protein spans the amino acid sequence from region 18-740. Purity: Greater than 90% as determined by SDS-PAGE.
<b>Tag</b>	C-terminal mFc-Avi-tagged
<b>Form/Appearance</b>	Lyophilized powder
<b>Buffer/Preservatives</b>	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Protein Sequence</b>	QSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNAGDKWSAFLKEQS TLAQMYPQLQEIQNLTVKLLQLALQONGSSVLSEDKSKRLNLTILNTMSTIYSTGKVCNPDNPQ ECLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLYEYVVLKNEMARANHYEDY GDYWRGDYEVNGVDGYDYSRGLIEDVEHTFEEIKPLYEHLHAYVRAKLMNAYPSYISPIGC LPAHLLGDMWGRFWTNLYSLTVPFGQKPNIDVTDAMVDQAWDAQRIFKEAEKFFVSVGLP NMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILMCTKVTMDDFLTAHHEMGHI QYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKSIGLLSPDFQEDNETEINFLK QALTIVGTLPFTYMLEKWRWMVFKGEIPKDQWMKKWWEMKREIVGVVEPVPHDETYCDP ASLFHVSNDYSFIRYYTRTLYQFQFQEAALCQAAKHEGPLHKCDISNSTEAGQKLFNMLRLGK SEPWTLALENVVGAKNMNVRPLLNYFEPLFTWLKDQNKNSFVGWSTDWSPYADQSIKVRI SLKSALGDKAYEWNENMYLFRSSVAYAMROYFLKVKNQMILFGEEDVRVANLKRISFNF FVTAPKNVSDIIPRTEVEKAIKMSRSRINDAFRLNDNSLEFLGIQPTLGPNNQPPVS
<b>Protein Length</b>	Partial
<b>UniProt ID</b>	<b>Q9BYF1</b>
<b>MW</b>	112.6 kDa

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<b>Application notes</b>	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.
<b>Endotoxins</b>	Less than 1.0 EU/μg as determined by LAL method.
<b>Source</b>	Mammalian cell
<b>Biological Origin</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 2 μg/ml can bind Biotinylated human ACE2, the EC <sub>50</sub> is 4.599-8.322 ng/ml.
<b>Expression Region</b>	18-740
<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>Note</b>	For research use only
<b>Expiration Date</b>	6 months from date of receipt.



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

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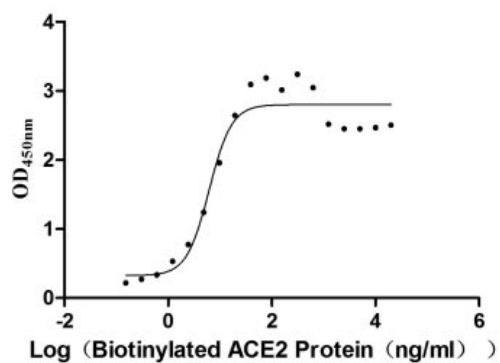
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Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 2  $\mu$ g/ml can bind Biotinylated human ACE2, the EC<sub>50</sub> is 4.599-8.322 ng/ml.

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