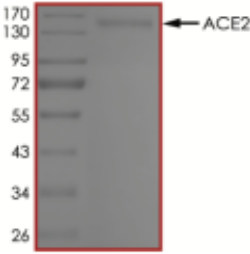
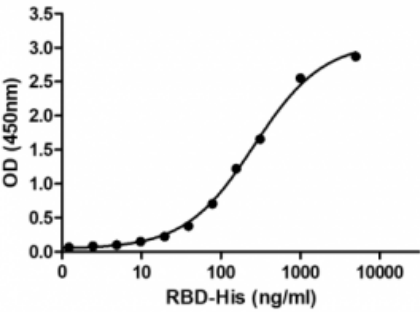




## PRODUCT DATASHEET

<b>Catalog No:</b>	BSV-COV-PR-14	BSV-COV-PR-15	BSV-COV-PR-16	BSV-COV-PR-17
<b>Pack Size</b>	10 µg	20 µg	50µg	100µg
<b>Product Name:</b>	Recombinant Human Angiotensin-Converting Enzyme 2 (ACE2)			
<b>Description:</b>	Recombinant human angiotensin-converting enzyme 2 (ACE2) extracellular domain (19-740) was expressed in CHO cells using a C-terminal Fc tag.			
<b>Species:</b>	2019-nCoV, SARS-CoV-2			
<b>Concentration:</b>	0.2 µg/µl			
<b>Sequence:</b>	Recombinant human angiotensin-converting enzyme 2 (ACE2) extracellular domain (19-740) was expressed in CHO cells using a C-terminal Fc tag.			
<b>Accession No.:</b>	<a href="#">AF291820</a>			
<b>Tag:</b>	C-terminal Fc-Tag			
<b>Host:</b>	Expressed in CHO Cells			
<b>Activity:</b>	Measured by its binding ability in a functional ELISA. Immobilized human ACE2 (19-740) protein (Fc tag) at 2µg/ml (100µg/well) can bind to 2019-nCoV Spike Protein RBD (His Tag).			
<b>Purity:</b>	>95% as determined by densitometry			

<p><b>Predicted Molecular Mass:</b></p>	 <p>The recombinant NCP-CoV (2019-nCoV) Human ACE2 protein, predicts a molecular mass of approximately 150 kDa.</p>
<p><b>Applications:</b></p>	 <p>Measured by its binding ability in a functional ELISA. Immobilized human ACE2(18-615) protein (Fc tag) at 2µg/ml (100µg/well) can bind to 2019-nCoV Spike Protein RBD (His-tag).</p>
<p><b>Formulation:</b></p>	<p>Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 90mM glycine.</p>
<p><b>Endotoxin:</b></p>	<p>Endotoxin level is &lt; 1.0 EU/µg purified protein (LAL test)</p>
<p><b>Shipping, Storage and Stability:</b></p>	<p>Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favourable performance, avoid repeated handling and multiple freeze/thaw cycles.</p>

<b>Background:</b>	<p>The Angiotensin-Converting Enzyme 2 (ACE2) belongs to the Angiotensin-Converting Enzyme (ACE) family of Dipeptidyl Carboxydipeptidases. ACE2 cleaves the Angiotensin I and Angiotensin II to counterbalancing ACE activity in the regulation of renin angiotensin system (RAS). ACE2 also plays a pivotal role in the regulation of cardiovascular, renal and reproductive systems. Besides, it is a functional receptor for the Spike glycoprotein (S) of SARS-CoV, HCoV-NL63, and SARS-CoV-2, which causes the pandemic of the respiratory diseases (COVID-19).</p> <p>ACE2 extracellular domain (18-615) binds to the SARS Coronavirus 2 (Cov-2) receptor binding domain (RBD). It is expressed in CHO cells and purified to greater than 95% purity. As a result, it is a very useful tool in search of COVID19 conditions.</p>
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