

Active Recombinant SARS-CoV S Protein, His-tagged

Cat. No. S-023S **Lot. No.** (See product label)

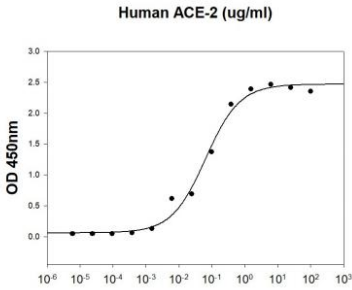
SPECIFICATION

Product Overview	Recombinant SARS-CoV spike RBD protein fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	SARS-CoV
Source	Insect cells
Description	May down-regulate host tetherin (BST2) by lysosomal degradation, thereby counteracting its antiviral activity.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human ACE-2.
Molecular Mass	24.7 kDa
AA Sequence	RVVPSGDVVRFPNITNLCPFGEVFNATKFPSVYAWERKKISNCVADYSVLNSTFFS TFKCYGVSATKLNDLCFSNVYADSFVVKGDDVRQIAPGQTGVIADYNYKLPPDFMG CVLAWNTRNIDATSTGNYNKYRYLRHGKLRPFERDISNVPFSPDGKPCPPALNC YWPLNDYGFYTTTGIGYQPYRVVLSFELLNAPATVCGPKL
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE

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Applications	SDS-PAGE, Bioactivity																						
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -102 centigrade. Avoid repeated freezing and thawing cycles.																						
Concentration	0.5 mg/mL (determined by Absorbance at 280nm)																						
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol																						
GENE INFORMATION																							
Gene Name	S spike glycoprotein [SARS coronavirus Tor2]																						
Official Symbol	S																						
Synonyms	S; spike glycoprotein; E2; spike glycoprotein																						
Gene ID	1489668																						
Protein Refseq	NP_828851.1																						
UniProt ID	P59594																						
Biological Activity	 Human ACE-2 (ug/ml) <table border="1"> <caption>Approximate data points from the Human ACE-2 dose-response curve</caption> <thead> <tr> <th>Human ACE-2 (ug/ml)</th> <th>OD 450nm</th> </tr> </thead> <tbody> <tr><td>10⁻⁶</td><td>0.0</td></tr> <tr><td>10⁻⁵</td><td>0.0</td></tr> <tr><td>10⁻⁴</td><td>0.0</td></tr> <tr><td>10⁻³</td><td>0.0</td></tr> <tr><td>10⁻²</td><td>0.1</td></tr> <tr><td>10⁻¹</td><td>0.5</td></tr> <tr><td>10⁰</td><td>1.5</td></tr> <tr><td>10¹</td><td>2.2</td></tr> <tr><td>10²</td><td>2.4</td></tr> <tr><td>10³</td><td>2.4</td></tr> </tbody> </table>	Human ACE-2 (ug/ml)	OD 450nm	10 ⁻⁶	0.0	10 ⁻⁵	0.0	10 ⁻⁴	0.0	10 ⁻³	0.0	10 ⁻²	0.1	10 ⁻¹	0.5	10 ⁰	1.5	10 ¹	2.2	10 ²	2.4	10 ³	2.4
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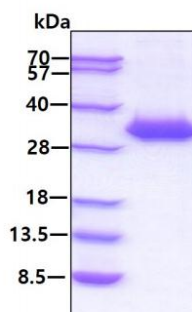
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SARS-CoV Spike RBD is coated at 5µg/mL (100 µL/well) can bind ACE-2 in a Functional ELISA assay.

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain