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ACE2 Protein (AA 18-740) (His tag)

3 Images



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Overview

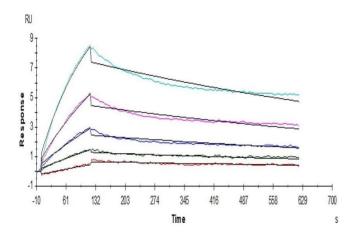
Quantity:	100 μg
Target:	ACE2
Protein Characteristics:	AA 18-740
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACE2 protein is labelled with His tag.

Product Details

Purpose:	Human ACE2/ACEH Protein
Sequence:	Gln18-Ser740
Characteristics:	Recombinant Human ACE2/ACEH Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gln18-Ser740.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.
Biological Activity Comment:	The affinity constant of 11.9nM as determined in SPR assay (Biacore T200). See testing image for detail.

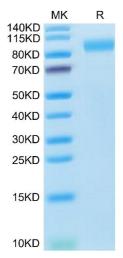
Target Details

rarget Details	
Target:	ACE2
Alternative Name:	ACE2 (ACE2 Products)
Background:	ACE2 (Angiotensin I Converting Enzyme 2) is a Protein Coding gene. Diseases associated with ACE2 include Severe Acute Respiratory Syndrome and Neurogenic Hypertension. The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7.
Molecular Weight:	84.7 kDa. Due to glycosylation, the protein migrates to 85-110 kDa based on Tris-Bis PAGE result.
Pathways:	ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Feeding Behaviour
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



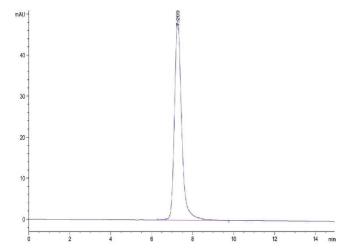
Surface Plasmon Resonance

Image 1. SARS-COV-2 Spike RBD captured on Protein A chip, can bind Human ACE2, His Tag with an affinity constant of 11.9nM as determined in a SPR assay (Biacore T200).



SDS-PAGE

Image 2. Human ACE2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



Size-exclusion chromatography-High Pressure Liquid Chromatography

 $\label{eq:mage 3.} \textbf{Image 3.} \ \textbf{The purity of Human ACE2} \ \textbf{is greater than 95\% as} \\ \textbf{determined by SEC-HPLC}$