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Datasheet for ABIN7273793 ACE2 Protein (His-Avi Tag)

3 Images



Overview

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

Product Details

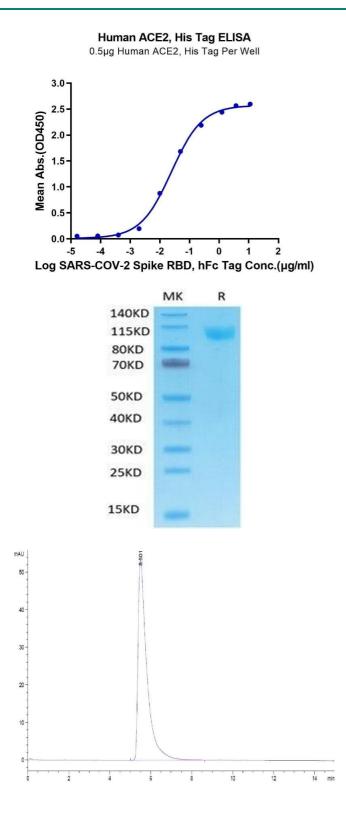
Sequence:	GIn18-Ser740
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human ACE2, His Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve
	for SARS-COV-2 Spike RBD, hFc Tag with the EC50 of 24.5ng/ml determined by ELISA. See
	testing image for detail.

Target Details

Target:	ACE2
Alternative Name:	ACE2 (ACE2 Products)
Background:	ACE-2, ACEH, ACE2, ACE2 (Angiotensin I Converting Enzyme 2) is a Protein Coding gene.
	Diseases associated with ACE2 include Severe Acute Respiratory Syndrome and Neurogenic

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	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:	86.5 kDa. Due to glycosylation, the protein migrates to 95-110 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 tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months



ELISA

Image 1. Immobilized Human ACE2, His Tag at $5 \mu g/mL$ (100 $\mu L/well$) on the plate. Dose response curve for SARS-COV-2 Spike RBD, hFc Tag with the EC50 of 24.5 ng/mL determined by ELISA.

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

Image 3. The purity of Human ACE2 is greater than 95 % as determined by SEC-HPLC

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