Datasheet for ABIN6952704

ACE2 Protein (His tag)

8 Images

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Overview

Quantity:	50 µg
Target:	ACE2
Origin:	Paguma larvata
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACE2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Paguma larvata ACE2 / ACEH Protein, His Tag
Sequence:	AA 18-740
Characteristics:	Paguma larvata ACE2, His Tag (AC2-P5248) is expressed from human 293 cells (HEK293). It contains AA Gln 18 - Thr 740 (Accession # Q56NL1-1). Predicted N-terminus: His This protein carries a polyhistidine tag at the N-terminus.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	ACE2
Alternative Name:	ACE2 (ACE2 Products)

Target Details

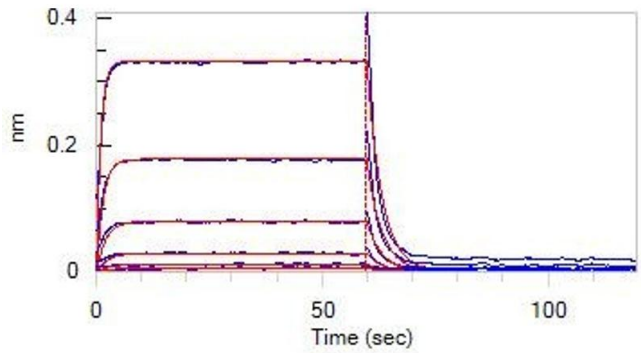
Background:	Angiotensin-converting enzyme 2 (ACE2) is also known as ACEH (ACE homolog), is an integral membrane protein with considerable homologous to ACE, which belongs to the peptidase M2 family. ACE2 is an exopeptidase that catalyses the conversion of angiotensin I to the nonapeptide angiotensin, or the conversion of angiotensin II to angiotensin 1-7. ACE2 may be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, ACE-2 serve as functional receptor for the spike glycoprotein of both coronaviruses. ACE2 is activated by chloride and fluoride, but not bromide and Inhibited by MLN-4760, cFP_Leu, and EDTA, but not by the ACE inhibitors linosipril, captopril and enalaprilat. ACE2 is active from pH 6 to 9, and the optimum pH is 6.5 in the presence of 1 M NaCl.
Molecular Weight:	85.7 kDa
Pathways:	ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Feeding Behaviour

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

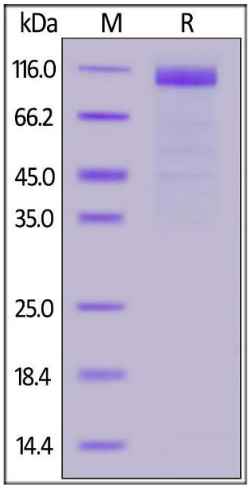
Handling

Format:	Liquid
Buffer:	50 mM Tris, 150 mM NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	The product MUST be stored at -70°C or lower upon receipt -70°C for 3 months under sterile conditions.



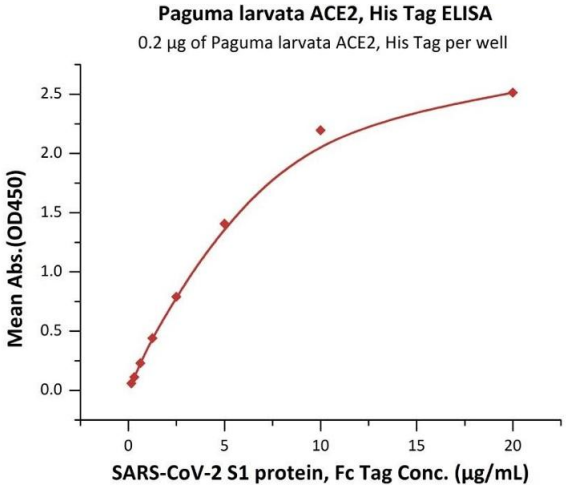
Bio-Layer Interferometry

Image 1. Loaded SARS-CoV-2 S protein RBD, Fc Tag (Cat. No. ABIN6952455) on Protein A Biosensor, can bind Paguma larvata ACE2, His Tag (Cat. No. ABIN6952729) with an affinity constant of 1.17 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



SDS-PAGE

Image 2. Paguma larvata ACE2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .



ELISA

Image 3. Immobilized Paguma larvata ACE2, His Tag (Cat. No. ABIN6952729) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 S1 protein, Fc Tag (Cat. No. ABIN6952647) with a linear range of 0.156-5 µg/mL (Routinely tested).

Please check the product details page for more images. Overall 8 images are available for ABIN6952704.