

Non-biotinylated Cynomolgus ACE2/ACEH Protein



Cat. No. ACE-CM401

Description

Source	Recombinant Cynomolgus ACE2/ACEH Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Gln18-Val739.
Accession	A0A2K5X283
Molecular Weight	The protein has a predicted MW of 86.5 kDa. Due to glycosylation, the protein migrates to 95-110 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

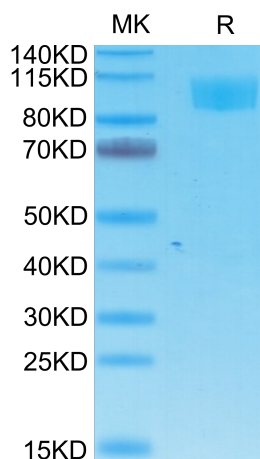
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



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

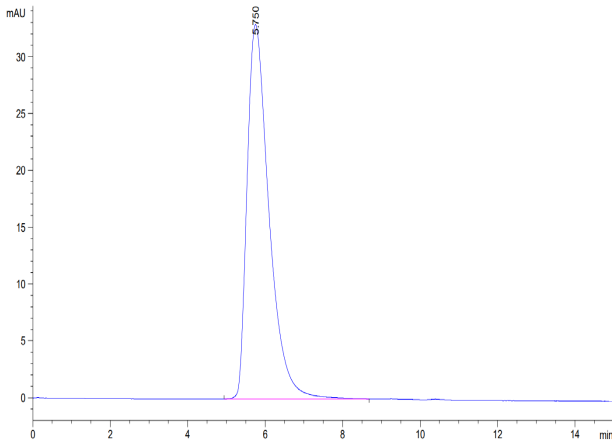
SEC-HPLC

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Assay Data

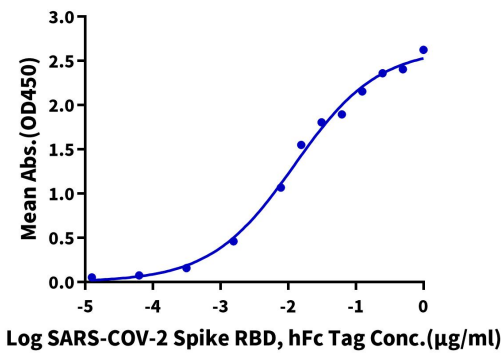


The purity of Cynomolgus ACE2 is greater than 95% as determined by SEC-HPLC.

Assay Data

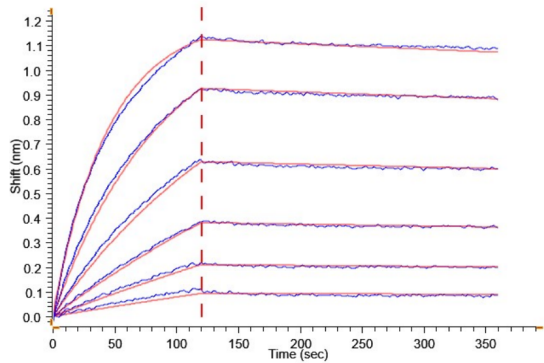
ELISA Data

Cynomolgus ACE2, His Tag ELISA
0.5µg Cynomolgus ACE2, His Tag Per Well



Immobilized Cynomolgus ACE2, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for SARS-COV-2 Spike RBD, hFc Tag with the EC50 of 12.4ng/ml determined by ELISA.

BLI Data



Loaded SARS-COV-2 Spike RBD, hFc Tag on ProA-Biosensor can bind Cynomolgus ACE2, His Tag with an affinity constant of 1.77 nM as determined in BLI assay (Gator® Prime).