Recombinant Rhesus Macaque Angiotensin-Converting Enzyme 2/ACE-2 (C-10His)

Catalog Number: PKSQ050119

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

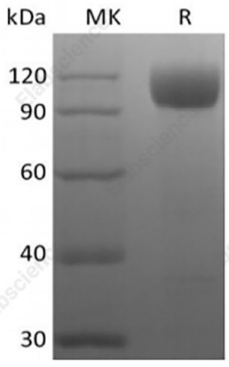
Description

Species	Rhesus macaque
Source	HEK293 Cells-derived Rhesus Macaque ACE2/ACE-2 protein Gln18-Val739, with an C-terminal His
Calculated MW	85.1 kDa
Observed MW	90-120 kDa
Accession	ACI04564.1
Bio-activity	Immobilized Rhesus Macaque ACE-2-His(Cat#PKSQ050119)at 5μg/ml (100 μl/well) can bind 2019-nCoV S Protein RBD-SD1-mFc(Cat#PKSR030476). The ED_{50} of Recombinant 2019-nCoV S Protein RBD-SD1-mFc(Cat#PKSR030476) is 16.8 ng/ml.

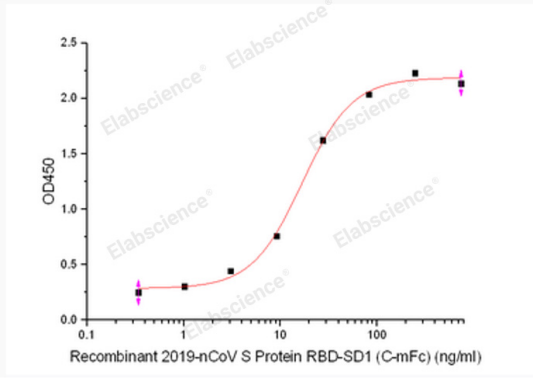
Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 25mM Tris-HCl, 150mM NaCl, 1mM $ZnCl_2$, pH 7.5.

Data



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Background

Angiotensin-Converting Enzyme 2 (ACE-2) is an integral membrane protein and a zinc metalloprotease of the ACE family, the ACE family includes somatic and germinal ACE. ACE-2 cleaves angiotensins I and II as a carboxypeptidase, ACE-2 converts angiotensin I to angiotensin 1-9, and angiotensin II to angiotensin 1-7. ACE-2 is also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. ACE-2 can be high expressed in testis, kidney and heart, in colon, small intestine and ovary at moderate levels. Captopril and lisinopril as the classical ACE inhibitor don't inhibit ACE-2 activity. ACE-2 may play an important role in regulating the heart function.

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