Recombinant Human ACE2 Protein (Fc Tag)

Catalog Number:PKSR030492



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

Description

Synonyms Angiotensin-Converting Enzyme 2;ACE-Related Carboxypeptidase;Angiotensin-

Converting Enzyme Homolog; ACEH; Metalloprotease MPROT15; ACE2

Species Human

Expression Host HEK293 Cells
Sequence Gln18-Ser740
Accession Q9BYF1
Calculated Molecular Weight 110.5 kDa
Observed molecular weight 110-140 kDa
Tag C-Fc

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Bioactivity Immobilized Human ACE-2-Fc(Cat#PKSR030492) at 2μg/ml (100 μl/well) can

bind 2019-nCoV S Protein RBD-SD1-mFc(Cat#PKSR030476). The ED50 of Recombinant 2019-nCoV S Protein RBD-mFc(Cat#PKSR030476) is 15.5 ng/ml.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Storage Store at $< -20^{\circ}$ 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

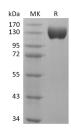
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 20mM Tris–HCl, 300mM NaCl, 10%

Glycerol, 100mM Glycine, pH7.4.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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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