

ACE2 active protein

Human ACE2 Protein (Fc Tag)

CATALOG #
AAA78494

HOST
HEK293 Cells

PRODUCT SYNONYMS

ACE2; Human ACE2 Protein (Fc Tag); SARS Receptor; Angiotensin-converting Enzyme 2; ACEH; Metalloprotease MPROT15; SARS-CoV-2; Receptor; ACE2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>=90% (SDS-PAGE)
Concentration	1mg/ml after reconstitution (Lyophilized. Contains PBS.). Reconstitute with 100ul endotoxin-free water. (varies by lot)
Amino Acid	Extracellular domain of human ACE2 (aa 1-740) is fused to the N-terminus of the Fc region of Human IgG1.
Biological Activity	Binds to the Spike protein of the coronavirus SARS-CoV-2. <0.001EU/mg purified protein (LAL test).
Preparation and Storage	After opening, prepare aliquots and store at -20 degree C. Avoid freeze/thaw cycles. For maximum product recovery after thawing, centrifuge the vial before opening the cap. Stable for at least 6 months after receipt when stored at -20 degree C. Working aliquots are stable for up to 3 months when stored at -20degree C.

ADDITIONAL INFORMATION

Related Product Information for ACE2 active protein

Angiotensin-converting enzyme 2 (ACE2) is an ectoenzyme (carboxypeptidase) with an extracellular catalytic domain that predominantly localizes at the plasma membrane and is thereby able to hydrolyze circulating peptides. ACE2 has approximately 42% sequence identity with ACE, and its cytoplasmic and transmembrane domains show 48% homology to the protein collectrin that plays a critical role in the amino acid absorption of the kidney. ACE2 converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. ACE2 is involved in the regulation of systemic blood pressure and has direct effects on cardiac functions. It is expressed predominantly in endothelial cells of the lung, gut, heart and kidney. ACE2 together with the protease TMPRSS2 acts as a functional receptor for SARS coronavirus as well as for the new highly pathogenic coronavirus, 2019-nCoV/SARS-CoV-2, which is cause for pneumonia COVID-19. It has been shown that human recombinant soluble ACE2 can significantly block early stages of SARS-CoV-2 infections.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/ace2/78494>