

ACE2 recombinant protein

Recombinant Human ACE2 His and DYKDDDDK Tag

CATALOG # AAA78554	HOST CHO cells	APPLICATIONS ELISA, Functional Assay
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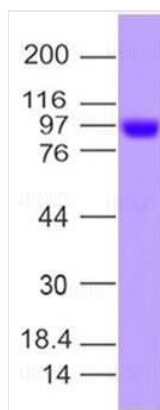
PRODUCT SYNONYMS

ACE2; Recombinant Human ACE2 His and DYKDDDDK Tag; ACE2 recombinant protein

PRODUCT SPECIFICATIONS

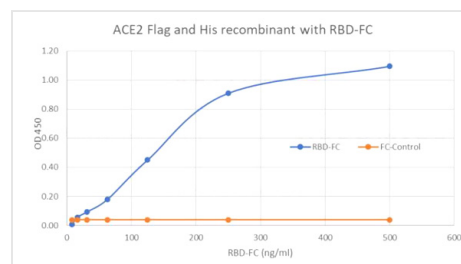
Host	CHO cells
Purity/Purification	>95% by SDS-PAGE
Form/Format	0.5mg/ml in sterile PBS with 20% Glycerol, pH 7.4
Sequence Positions	20-740aa
Applicable Applications for ACE2 recombinant protein	ELISA, FA (Functional Assay)
Preparation and Storage	It is shipped on ice packs. Upon arrival, store at -20 degree C. Do not freeze-thaw multiple times.

IMAGES



SDS-PAGE

Figure 2 : SDS-PAGE analysis of purified Human ACE2 His and DYKDDDDK Tag recombinant protein. 4 ug protein was run on a 4-20% SDS-PAGE gel followed by Coomassie blue staining.



Application Data

Figure 1 : Recombinant Human ACE2 His and DYKDDDDK Tag (21-1006) binds with high affinity to the Spike (RBD) protein of the virus SARS-CoV-2. Method: Recombinant Human ACE2 His and DYKDDDDK Tag (21-1006) is coated on an ELISA plate at 1ug/ml overnight at 4 degree C. Recombinant SARS-Cov-2 Spike RBD Protein Fc Tag (319-541 aa) is added (starting at a concentration of 500 ng/ml with a two fold serial dilution) incubated one hour at RT. The interaction is then detected using an anti-human IgG (HRP).

ADDITIONAL INFORMATION

Related Product Information for ACE2 recombinant protein	The extracellular domain of recombinant human ACE2 (aa 20-740) is fused with C-terminus DYKDDDDK tag and His tag. 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 the cause of COVID-19.
Product Categories/Family for ACE2 recombinant protein	Recombinant Proteins

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/ace2-recombinant-protein-cho-cells-elisa-fa-functional-assay/78554>