

ACE-2 recombinant protein

Human ACE-2

CATALOG # AAA79329	HOST Insect cells
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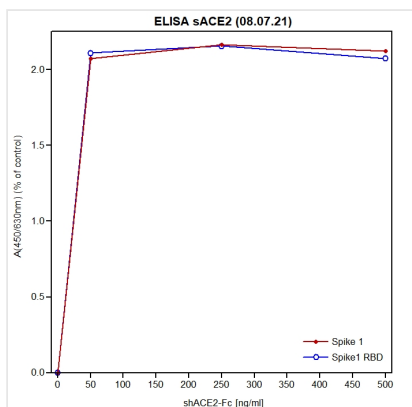
PRODUCT SYNONYMS

ACE-2; Human ACE-2; Angiotensin-converting enzyme homolog1; ACEH1; Angiotensin-converting enzyme-related carboxypeptidase1; ACE-related carboxypeptidase; ACE-2 recombinant protein

PRODUCT SPECIFICATIONS

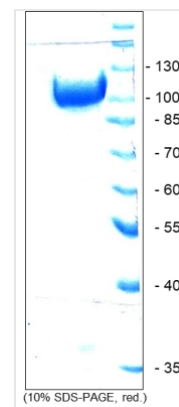
Host	Insect cells
Purity/Purification	> 95% by SDS-PAGE & Coomassie stain
Form/Format	lyophilized
Sequence	QSTIEEQAKT FLDKFNHEAE DLFYQSSLAS WNYNTNITEE NVQNMNAGD KWSAFLKEQS TLAQMYPLQE IQNLTVKLQL QALQQNGSSV LSEDKSKRLN TILNTMSTIY STGKVCNPDN PQECLLLEPG LNEIMANSLD YNERLWAWES WRSEVGKQLR PLYEEYVVLK NEMARANHYE DYGDYWRGDY EVNGVDGYDY SRGQLIEDVE HTFEEIKPLY EHLHAYVRAK LMNAYPSYIS PIGCLPAHLL GDMWGRFTWN LYSLTVPFGQ KPNIDVTDAM VDQAWDAQRI FKEAEKFFVS VGLPNMTQGF WENSMLTDPG NVQKAVCHPT AWDLGKGDFFR ILMCTKVTMD DFLTAHHEMG HIQYDMAYAA QPFLLRNGAN EGFHEAVGEI MSLSAATPKH LKSIGLLSPD FQEDNETEIN FLLKQALTIV GTLPFTYMLE KWRWMVFKGE IPKDQWMKKW WEMKREIVGV VEPVPHDETY CDPASLFHVS NDYSFIRYYT RTLYQFQFQE ALCQAAKHEG PLHKCDISNS TEAGQKLFNM LRLGKSEPWT LALENVVGAK NMNVRPLLNY FEPLFTWLKD QNKNSFVGWS TDWSPYADQS IKVRISLKSA LGDKAYEWND NTRSDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRE EMTKNQVSLT CLVKGFPYPSD IAVEWESNGQ PENNYKTPP MLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG K
Sequence Length	851
Tag Information	Fc-Tag

IMAGES



Application Data

Figure 2. Binding of sACE2-Fc to recombinant SARS-CoV2 Spike1 proteins in a functional ELISA. Recombinant SARS-CoV2 Spike1 and Spike1 RBD fragments were coated with 2ug/ml in PBS. The sACE2-Fc was added in increasing concentrations.



SDS-PAGE

Figure 1. SDS-PAGE analysis of recombinant human soluble ACE2-Fc. Sample was loaded in 10% SDS-polyacrylamide gel under reducing conditions and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for ACE-2 recombinant protein	Angiotensin I Converting Enzyme (ACE2) is a dimeric, zinc-dependent metalloprotease of the ACE family. ACE2 has been established as the functional host receptor for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). ACE2 is abundantly expressed in a variety of cells residing in many different human organs. In human physiology, ACE2 is a pivotal counter-regulatory enzyme to ACE by the breakdown of angiotensin II, the central player in the renin-angiotensin-aldosterone system (RAAS) and the main substrate of ACE2. Full length ACE2 protein includes an extracellular region composed of a single N-terminal peptidase domain and C-terminal collectrin-like domain (CLD), a transmembrane domain, and a short cytoplasmic tail. The N-terminal peptidase region is required for binding to SARS-CoV and SARS-CoV2 spike proteins, while the CLD contains a region that promotes dimerization and association with amino acid transporters. The peptidase domain contains a long deep cleft that undergoes a large hinge-bending movement at substrate and inhibitor binding. Classical ACE inhibitors such as captopril and lisinopril do not inhibit ACE2 activity and inhibitors of ACE2 do not inhibit ACE activity. The recombinant sACE2 consists of the extracellular domain from Gln18 to Asn639 and was fused at the C terminus to the human Fc-tag.
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NCBI AND UNIPROT INFORMATION

NCBI Accession #	NP_068576.1
NCBI GenBank Nucleotide #	NM_021804.2
UniProt Accession #	Q9BYF1

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/ace-2-recombinant-protein-insect-cells/79329>