

Product datasheet for **TP701115**

ACE2 (NM_021804) Human Recombinant Protein (Angiotensin Converting Enzyme 2)

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant Human angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), extracellular domain of ACE spanning 1-615 residues, with C-terminal Human FC tag, expressed in HEK293.
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	MDWIWRILFL VGAATGAHSQ STIEEQAKTF LDKFNHEAED LFYQSSLASW NYNTNITEEN VQNMNNAGDK WSAFLKEQST LAQMYPLQEI QNLTVKLQLQ ALQQNGSSVL SEDKSKRLNT ILNTMSTIYS TGKVCNPDNP QECLLLEPGL NEIMANSLDY NERLWAWESW RSEVGKQLRP LYEEYVVLKN EMARANHVED YGDYWRGDYE VNGVDGYDYS RGQLIEDVEH TFEEIKPLYE HLHAYVRAKL MNAYPSYISP IGCLPAHLLG DMWGRFWTNL YSLTVPGQK PNIDVTDAMV DQAWDAQRF KEAEKFFVSV GLPNMTQGFW ENSMLTDPGN VQKAVCHPTA WDLGKGDFRI LMCTKVTMDD FLTAHHEMGH IQYDMAYAAQ PFLLRNGANE GFHEAVGEIM SLSAATPKHL KSIGLLSPDF QEDNETEINF LLKQALTIVG TLPFTYMLEK WRWMVFKGEI PKDQWMKKWW EMKREIVGVV EPVPHDETYC DPASLFHVSN DYSFIRYYTR TLYQFQFQEA LCQAAKHEGP LHKCDISNST EAGQKLFNML RLGKSEPWTL ALENVVGAKN MNVRPLLNYF EPLFTWLKQDQ NKNSFVGWST DWSPYADEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTPPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGK
Tag:	C-FC
Predicted MW:	95.3 kDa
Concentration:	>0.05 µg/µL as determined by Bradford protein assay method.
Purity:	> 90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.

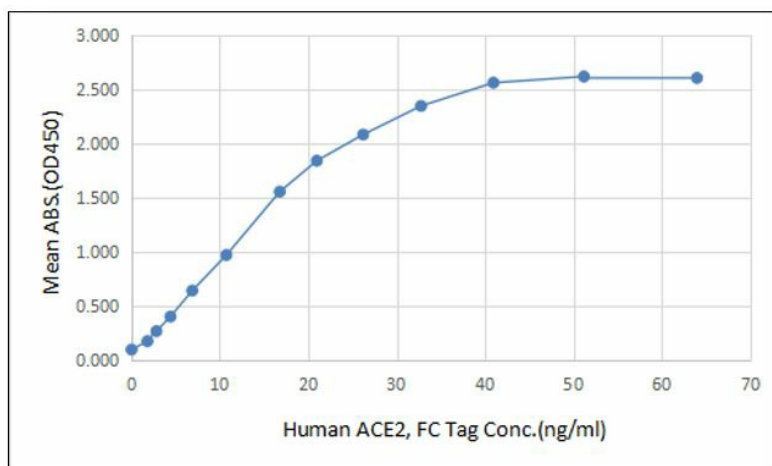

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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_068576
Locus ID:	59272
UniProt ID:	Q9BYF1
Cytogenetics:	Xp22.2
Synonyms:	ACEH
Summary:	The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. ACE2 is known to be expressed in various human organs, and its organ- and cell-specific expression suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronavirus HCoV-NL63 and the human severe acute respiratory syndrome coronaviruses, SARS-CoV and SARS-CoV-2, the latter is the causative agent of coronavirus disease-2019 (COVID-19). Multiple splice variants have been found for this gene and the dACE2 (or MIRb-ACE2) splice variant has been found to be interferon inducible. [provided by RefSeq, Nov 2020]
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Renin-angiotensin system

Product images:



Purified recombinant protein ACE2 protein was analyzed by SDS-PAGE gel and Coomassie Blue Staining.



Binding activity measured by ELISA: Immobilized SARS-CoV-2 Spike Membrane Fusion Protein (RBD of S-Protein and Virion Surface Domain of M-Protein with His Tag; Cat.No. [TP701119]) at 2 $\mu\text{g/mL}$ (100 μL /well) can bind to Human ACE2 Fc Tag (Cat.No. TP701115), the EC₅₀ of the human ACE2 protein is 10-20 ng/ml.