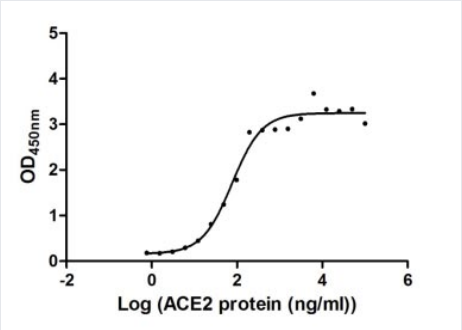
Angiotensin-Converting Enzyme 2 (ACE2) Human Active Protein

PRODUCT OVERVIEW

Product Name	Angiotensin-converting enzyme 2 (ACE2), Active Protein
Full Product Name	Recombinant Human Angiotensin-converting enzyme 2 (ACE2), partial
Product Gene Name	ACE2 active protein
Product Synonym Gene Name	ACE2
Sequence	QSTIEEQAKT FLDKFNHEAE DLFYQSSLAS WNYNTNITEE NVQNMNNAGD KWSAFLKEQS TLAQMYPLQE IQNLTVKLQL QALQQNGSSV LSEDKSKRLN TILNTMSTIY STGKVCNPDN PQECLLLEPG LNEIMANSLD YNERLWAWES WRSEVGKQLR PLYEEYVVLK NEMARANHYE DYGDYWRGDY EVNGVDGYDY SRGQLIEDVE HTFEEIKPLY EHLHAYVRAK LMNAYPSYIS PIGCLPAHLL GDMWGRFWTN LYSLTVPFGQ KPNIDVTDAM VDQAWDAQRI FKEAEKFFVS VGLPNMTQGF WENSMLTDPG NVQKAVCHPT AWDLGKGDFR 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 NEMYLFRSSV AYAMRQYFLK VKNQMILFGE EDVRVANLKP RISFNFFVTA PKNVSDIIPR TEVEKAIRMS RSRINDAFRL NDNSLEFLGI QPTLGPPNQP PVS
Host	Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	63,912 Da
Sequence Positions	18-740aa; Partial
OMIM	300335
3D Structure	ModBase 3D Structure for Q9BYF1
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Human
Buffer	Lyophilized from Tris/PBS-based buffer, 6% Trehalose, pH 8.0
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ACE2 active protein	This protein 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. The organ- and cell-specific expression of this gene 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 coronaviruses SARS and HCoV-NL63.
Other Notes	Small volumes of ACE2 active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACE2 purchase	MBS1422789 is an active protein targeting ACE2. Also known as Recombinant Human Angiotensin-converting enzyme 2 (ACE2), partial. Host: Mammalian Cell.



Ligand Interaction Activity of ACE2 active protein
Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S at 2 ug/ml can bind human ACE2, the EC50 of SARS-CoV-2-S protein is 56.64 - 103.6 ng/ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACE2. It may not necessarily be applicable to this product.

NCBI GI #	11225609
NCBI GeneID	59272
NCBI Accession #	NP_068576.1
UniProt Primary Accession #	Q9BYF1
UniProt Secondary Accession #	Q6UWP0; Q86WT0; Q9NRA7; Q9UFZ6; C7ECU1
UniProt Related Accession #	Q9BYF1
GenBank Nucleotide #	NM_021804.2
NCBI Official Full Name	angiotensin-converting enzyme 2
NCBI Official Synonym Full Names	angiotensin I converting enzyme 2
NCBI Official Symbol	ACE2
NCBI Official Synonym Symbols	ACEH
UniProt Protein Name	Angiotensin-converting enzyme 2
UniProt Synonym Protein Names	ACE-related carboxypeptidase; Angiotensin-converting enzyme homolog; ACEH
Protein Family	Angiotensin-converting enzyme
UniProt Gene Name	ACE2
UniProt Synonym Gene Names	ACEH
NCBI Protein Information	angiotensin-converting enzyme 2
NCBI Summary for ACE2	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. The organ- and cell-specific expression of this gene 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 coronaviruses SARS and HCoV-NL63. [provided by RefSeq, Jul 2008]
UniProt Comments for ACE2	Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. May be an important regulator of heart function.
Research Articles on ACE2	**1.** ACE2 rs2106809 is an important predictive factor of the response to antihypertensive treatment with ACE inhibitors in Chinese female hypertensive patients.

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