

Recombinant Human ACE2 Protein (ECD, processed, AA 20-708), Tag-free

Cat. No. ACE2-26H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACE2 Protein (ECD, processed, AA 20-708), Tag-free, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	AA 20-708
Description	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.
Form	Lyophilized

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNAGDKWSAFLK
 EQSTLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSEDKSKRLNTILNTMSTIYSTGKV
 CNPDNPQECLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLYEEYVVLK
 NEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHLHA
 YVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFGQKPNIDVTDAMV
 DQAWDAQRIFKEAEKFFVSVGLPNMTQGGFWENSMLTDPGNVQKAVCHPTAWDLG
 KGDFRILMCTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIM
 SLSAATPKHLKSIGLLSPDFQEDNETEINFLKQALTIVGTLPFTYMLEKWRWMVFKG
 EIPKDQWMKKWWEMKREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQ
 FQFQEALCQAAKHEGPLHKCDISNSTEAGQKLFNMLRLGKSEPWTALENVVGAKN
 MNVRPLLNYFEPLFTWLKDQNKNSFVGWSTDWSPYADQSIKVRISLKSALGDKAYE
 WNDNEMYLFRSSVAYAMRQYFLKVKNQMILFGEEDVRVANLKPRI SFNFFVTAPKN
 VSDIIPRTEVEKAIRMSR

Purity

> 80% as determined by SDS-PAGE

Storage Buffer

50 mM Tris, 250 mM NaCl, pH 8.0

Shipping

Shipped at room temperature.

GENE INFORMATION
Gene Name

ACE2 angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 [Homo sapiens]

Official Symbol

ACE2

Synonyms

ACE2; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2; angiotensin-converting enzyme 2; metalloprotease MPROT15; ACE-related carboxypeptidase; angiotensin I converting enzyme 2; angiotensin-converting enzyme homolog; ACEH

Gene ID

59272

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mRNA Refseq	NM_021804
Protein Refseq	NP_068576
MIM	300335
UniProt ID	Q9BYF1

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