

Recombinant Human ACE2 Protein (ECD, AA 20-707), C-Avi/His-Tagged, Biotinylated

Cat. No. ACE2-23H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human ACE2 Protein (ECD, AA 20-707) with C-Avi/His tag (Biotinylated) was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

AA 20-707

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

Liquid

 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
 EQSTLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSSEDKSKRLNTILNTMSTIYSTGKV
 CNPDNPQECLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLYEEYVVLK
 NEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHLHA
 YVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFQKPNIDVTDAMV
 DQAWDAQRIFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLG
 KGDFRILMCTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIM
 SLSAATPKHLKSIGLLSPDFQEDNETEINFLKQALTIVGTLPFTYMLEKWRWVMVFKG
 EIPKDQWMKKWWEMKREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQ
 FQFQEALCQAAKHEGPLHKCDISNSTEAGQKLFNMLRLGKSEPWTALENVVGAKN
 MNVRPLLNYFEPLFTWLKDQNKNSFVGWSTDWSPYADQSIKVRISLKSALGDKAYE
 WNDNEMYLFRSSVAYAMRQYFLKVKNQMILFGEDVRVANLKPRI SFNFFVTAPKN
 VSDIIPRTEVEKAIRMS

Purity > 80% as determined by SDS-PAGE

Storage Stored and shipped at -80 centigrade

Storage Buffer PBS, pH 7.4

Conjugation Biotin

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

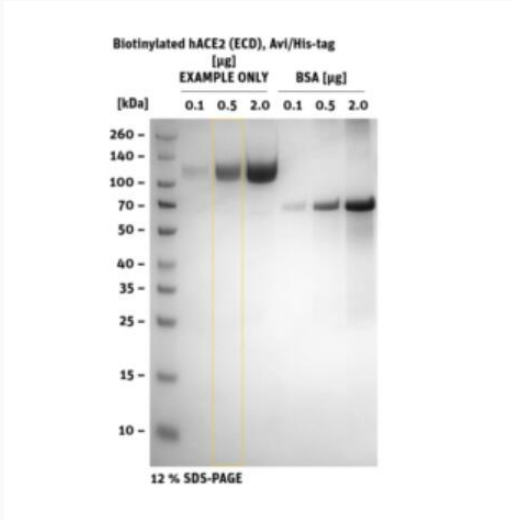
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Gene ID	59272
mRNA Refseq	NM_021804
Protein Refseq	NP_068576
MIM	300335
UniProt ID	Q9BYF1

SDS-PAGE



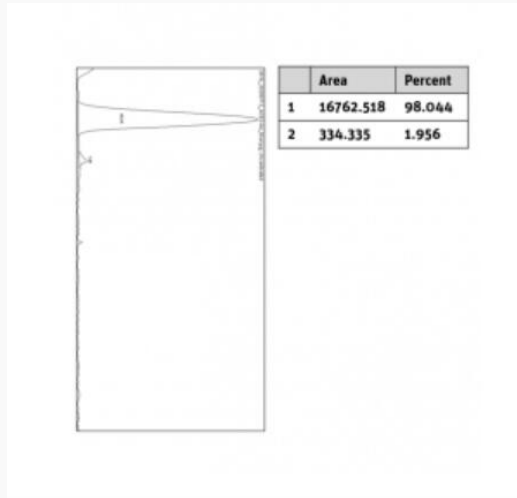
Biotinylated hACE2 (ECD), Avi/His-tag
[µg]
EXAMPLE ONLY BSA [µg]
[kDa] 0.1 0.5 2.0 0.1 0.5 2.0
260 -
140 -
100 -
70 -
50 -
40 -
35 -
25 -
15 -
10 -
12 % SDS-PAGE

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**Histogram of marked
lane in gel picture**



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