

Product Information

Recombinant Human ACE2 Protein

Catalog Number	Packaging Size
P103	100 µg

Storage upon receipt:

- 20°C to -80°C
- Avoid repeated freeze-thaw cycles

Product Description

Recombinant Human Angiotensin-Converting Enzyme 2/ACE-2 protein produced by transfected human cells is a secreted protein with sequence (Ser19-Asp615) of human ACE-2.

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.

Alternative Names:

ACE2; Angiotensin-converting enzyme 2; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2; ACEH; DKFZp434A014; angiotensin I converting enzyme; ACE-related carboxypeptidase2; angiotensin converting enzyme-like protein.

Protein Construction:

A DNA sequence encoding the human ACE2 Protein (Ser19-Asp615) was expressed.

Species:

Human.

Expressed Host:

HEK293 Cells.

Purity:

> 95% as determined by SDS-PAGE.

Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

Predicted N Terminal:

Ser.

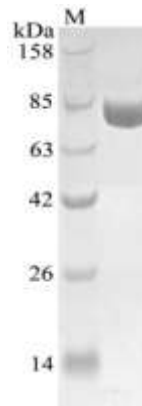
Molecule Weight:

The recombinant human ACE2 Protein consists of 597 amino acids and predicts a molecular mass of 69.1 kDa.

Protein Storage Buffer:

150 mM NaCl, 20 mM NaHCO₃, pH 7.0.

SDS-PAGE:



Reference:

- Koitka A, et al. (2008) Angiotensin converting enzyme 2 in the kidney. *Clin Exp Pharmacol Physiol.* 35(4): 420-5.
- Raizada MK, et al. (2007) ACE2: a new target for cardiovascular disease therapeutics. *J Cardiovasc Pharmacol.* 50(2): 112-9.
- Imai Y, et al. (2007) Angiotensin-converting enzyme 2 (ACE2) in disease pathogenesis. *Circ J.* 74(3): 405-10.