



# Recombinant Protein Technical Manual

## Recombinant Human ACE2 Protein (His Tag)

RPES2538

### Product Data:

**Product SKU:** RPES2538

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9BYF1

### Protein Information:

**Molecular Mass:** 84.6 kDa

**AP Molecular Mass:** 103 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt; store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µM filtered solution of 20mM Tris-HCl, 150mM NaCl, 0.1mM ZnCl<sub>2</sub>, 10% Glycerol, pH 7.5.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Angiotensin-Converting Enzyme 2; ACE-Related Carboxypeptidase; Angiotensin-Converting Enzyme Homolog; ACEH; Metalloprotease MPROT15; ACE2

## Immunogen Information:

**Sequence:** Gln18-Ser740

## Background:

Angiotensin-Converting Enzyme 2 (ACE-2) is an integral membrane protein and a zinc metalloprotease of the ACE family, the ACE family includes somatic and germinal ACE. ACE-2 cleaves angiotensins I and II as a carboxypeptidase, ACE-2 converts angiotensin I to angiotensin 1-9, and angiotensin II to angiotensin 1-7. ACE-2 is also able to hydrolyze apelin3 and dynorphin3 with high efficiency. ACE-2 can be high expressed in testis, kidney and heart, in colon, small intestine and ovary at moderate levels. Captopril and lisinopril as the classical ACE inhibitor don't inhibit ACE-2 activity. ACE-2 may play an important role in regulating the heart function.