

## Product datasheet for TP701115

### ACE2 (NM\_021804) Human Recombinant Protein (Angiotensin Converting Enzyme 2)

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant Human angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), extracellular domain of ACE spanning 1-615 residues, with C-terminal Human FC tag, expressed in HEK293.
Species:	Human
Expression Host:	HEK293
Tag:	C-FC
Predicted MW:	95.3 kDa
Concentration:	>50 ug/mL as determined by Bradford protein assay method.
Purity:	> 90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, 10% glycerol.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_068576</a>
Locus ID:	59272
Cytogenetics:	Xp22.2
Synonyms:	ACEH
Summary:	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 coronavirus HCoV-NL63 and the human severe acute respiratory syndrome coronaviruses, SARS-CoV and SARS-CoV-2 (COVID-19 virus). [provided by RefSeq, Mar 2020]
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane



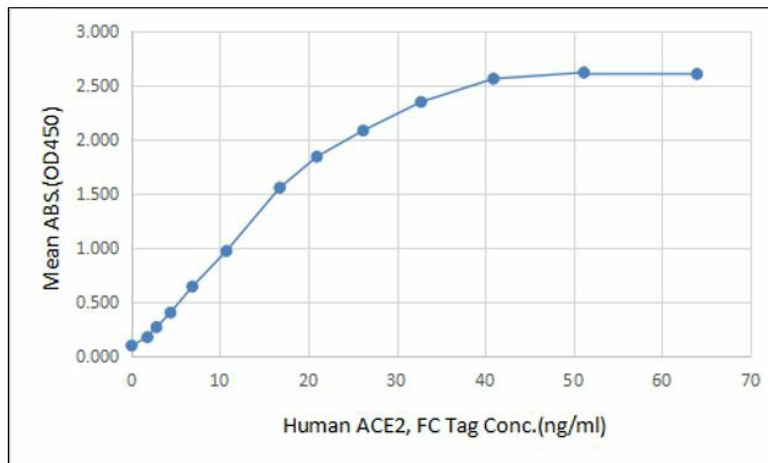
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Protein Pathways: Renin-angiotensin system

### Product images:



Purified recombinant protein ACE2 protein was analyzed by SDS-PAGE gel and Coomassie Blue Staining.



Binding activity measured by ELISA: Immobilized SARS-CoV-2 Spike Membrane Fusion Protein (RBD of S-Protein and Virion Surface Domain of M-Protein with His Tag; Cat.No. [TP701119]) at 2  $\mu\text{g}/\text{mL}$  (100  $\mu\text{L}/\text{well}$ ) can bind to Human ACE2 Fc Tag (Cat.No. TP701115), the EC<sub>50</sub> of the human ACE2 protein is 10-20 ng/ml.