

Active Recombinant Human ACE2 protein, hFc-tagged, Endotoxin-Free

Cat. No. ACE2-092H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human ACE2 protein(Met 1-Ser 740)(NP_068576.1) was expressed in HEK293 with the fused Fc region of human IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-740 aa
Form	Supplied as sterile PBS, pH 7.4.
Bio-activity	1.Loaded Recombinant SARS-CoV-2 Spike RBD-mFc Recombinant Protein (HPLC-verified) on AMC Biosensor, can bind Recombinant Human ACE2 / Angiotensin-Converting Enzyme 2 Protein (Fc Tag) with an affinity constant of 1.36 nM as determined in BLI assay (Sartorius Octet RED384). 2.Recombinant Human ACE2 / Angiotensin-Converting Enzyme 2 Protein (Fc Tag) captured on Protein A chip, can bind Recombinant SARS-CoV-2 B.1.1.529 (Omicron) Spike S1 Protein (His Tag) with an affinity constant of 9.621 nM as determined in an SPR assay (Biacore T200).
Molecular Mass	The recombinant human ACE2/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 961 amino acids and predicts a molecular mass of 110.3 kDa. As a result of glycosylation, the band migrates approximately 140-150 kDa in the SDS-PAGE under reducing conditions.

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Endotoxin	< 0.5 EU per mg protein.
Purity	≥ 90 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Concentration	0.1-1.0 mg/mL. Centrifuge the vial at 4°C before opening to recover the entire contents.

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
mRNA Refseq	NM_021804
Protein Refseq	NP_068576
MIM	300335
UniProt ID	Q9BYF1

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