

Human ACE2 (His tag) recombinant protein



Catalog Number: 521000

General Information

Gene Name Synonym

ACE-related carboxypeptidase; Angiotensin-converting enzyme homolog; Metalloprotease MPROT15; Processed angiotensin-converting enzyme 2

Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Ser 740) of human ACE2 precursor (NP_068576.1) was expressed with the 6His tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by binding Spike RBD in a functional ELISA.

Immobilized SARS-CoV-2 Spike RBD Protein (Fc Tag, 521009) at 1µg/mL (100µL/well) can bind human ACE2 protein (His tag, 521000), the EC₅₀ of ACE2 is 10-25 ng/mL.

2. Measured by cleaving McaYVADAPK (Dnp)OH. Reacted with the fluorogenic peptide substrate McaYVADAPK (Dnp)OH, Catalog # ES007 from R&D Systems. The specific activity is >1000 pmols/min/µg.

Purity

> 95 % as determined by SDS-PAGE.

> 90 % as determined by SEC-HPLC

Endotoxin

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

Stability

Store for up to 12 months at -20°C to -80°C as lyophilized powder. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Predicted N terminal

Gln18

Molecular Mass

85.1 kDa

Formulation

Lyophilized from sterile PBS, pH7.4, 5% trehalose, 5% mannitol, 0.01% tween-80

Usage Guide

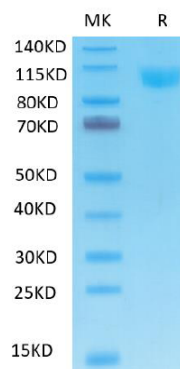
Storage

Store at -80°C. Avoid repeated freezing and thawing cycles

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is recommended to reconstitute to a concentration of 0.25 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE



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