

Synonym

ACE-2,ACEH,ACE2

Source

HRP-Human ACE2, Fc Tag (AC2-HR2H0) is expressed from human 293 cells (HEK293). It contains AA Gln 18 - Ser 740 (Accession # [Q9BYF1-1](#)).
Predicted N-terminus: Gln 18

Molecular Characterization

ACE2(Gln 18 - Ser 740) Q9BYF1-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.
The protein has a calculated MW of 110.0 kDa.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.3 . Normally trehalose is added as protectant before lyophilization.
Contact us for customized product form or formulation.

Reconstitution

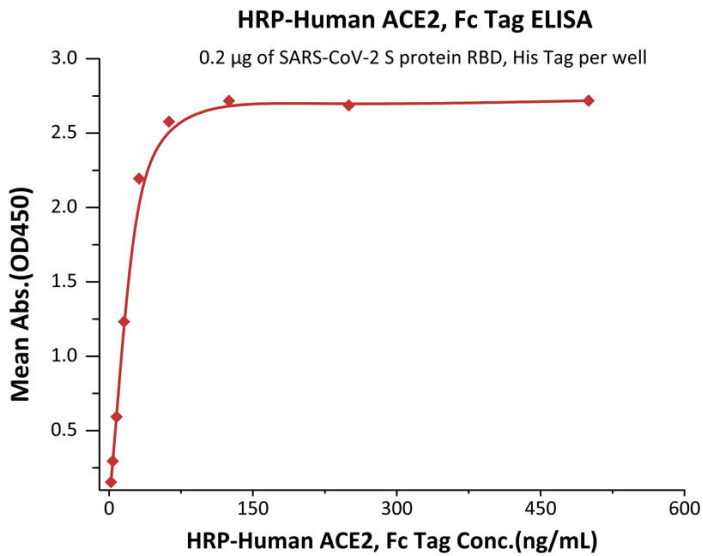
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

Bioactivity-ELISA



Detection of HRP-Human ACE2, Fc Tag titer by Indirect-ELISA Assay.
Immobilized SARS-CoV-2 S protein RBD, His Tag (Cat. No. [SPD-C52H1](#)) at 2 µg/mL (100 µL/well) can bind HRP-Human ACE2, Fc Tag (Cat. No. [AC2-HR2H0](#)) with a linear range of 2.0-31.2ng/mL (QC tested).

Background

Angiotensin-converting enzyme 2 (ACE2) is also known as ACEH (ACE homolog), is an integral membrane protein with considerable homologous to ACE, which belongs to the peptidase M2 family. ACE2 is an exopeptidase that catalyses the conversion of angiotensin I to the nonapeptide angiotensin, or the conversion of angiotensin II to angiotensin 1-7. ACE2 may be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, ACE-2 serve as functional receptor for the spike glycoprotein of both coronaviruses. ACE2 is activated by chloride and fluoride, but not bromide and Inhibited by MLN-

4760, cFP_Leu, and EDTA, but not by the ACE inhibitors linsipril, captopril and enalaprilat. ACE2 is active from pH 6 to 9, and the optimum pH is 6.5 in the presence of 1 M NaCl.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.