

For Research Use Only

Recombinant Mouse ACE2 protein (rFc Tag)



Catalog Number: Eg2834

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse ACE2 protein Gln18-Thr740 (Accession# Q8R0I0-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

70008

Accession:

Q8R0I0-1

Predicted Molecular Mass:

109.5 kDa

SDS-PAGE:

110-130 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

ACE2 (Angiotensin-converting enzyme 2), also named as ACEH, is a zinc metalloprotease of the ACE family and a critical regulator of the reninangiotensin system. ACE2 has a more restricted tissue distribution than ACE, being found predominantly in the heart, kidneys, and testes although low levels have been detected in a variety of tissues. ACE2 has been shown to be a functional receptor of the human coronaviruses SARS-CoV and SARS-CoV-2. The expression level and expression pattern of human ACE2 in different tissues might be critical for the susceptibility, symptoms, and outcome of 2019-nCoV/SARS-CoV-2 infection. It can be used as a potential therapeutic target of SARS-CoV-2.

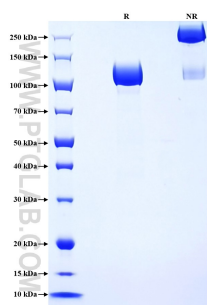
References

1. Lambert DW, et al. (2005) J Biol Chem. 280(34):30113-9.
2. Hoffmann M, et al. (2020) Cell. 181(2):271-280.e8.
3. Cao Y, et al. (2020) Cell Discov. 6:11.
4. Zhang H, et al. (2020) Intensive Care Med. 46(4):586-590.
5. Warner FJ, et al. (2005) J Biol Chem. 280(47):39353-62.

Synonyms

Ace2, ACE-related carboxypeptidase, Angiotensin-converting enzyme 2, EC:3.4.17.-, EC:3.4.17.23

Selected Validation Data



Purity of Recombinant Mouse ACE2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.