

## Recombinant Human ACE2 Protein with hFc tag

|                    |                                                                                                                                                                                                                     |                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Catalog No</b>  | RP01275                                                                                                                                                                                                             | <b>Category</b> |
| <b>Description</b> | Recombinant Human ACE2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln18-Ser740) of human ACE2 (Accession #Q9BYF1) fused with a Fc tag at the C-terminus. |                 |
| <b>Bioactivity</b> | Measured by its binding ability in a functional ELISA. Immobilized Recombinant 2019-nCoV Spike RBD-6His at 2μg/mL (100 μL/well) can bind Recombinant Human ACE2-Fc, the EC <sub>50</sub> of ACE2-Fc is 4-6 ng/mL.   |                 |

### Sequence Information

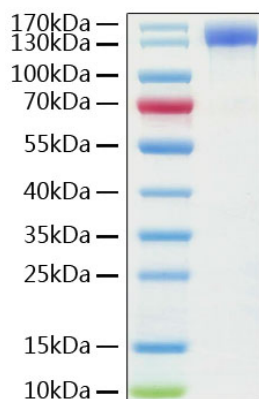
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |        |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|
| <b>Species</b>     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Gene ID</b>    | 59272  |
| <b>Tags</b>        | Fc tag at the C-terminus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Swiss Prot</b> | Q9BYF1 |
| <b>Synonyms</b>    | ACE-2;ACEH;ACE2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |        |
| <b>AA Sequence</b> | QSTIEEQAKTFLDKFNHEAEDLFYQSSSLASWNYNTNTEENVQNMNAGDKWSAFLKEQS<br>TLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSEDKSKRLNTILNTMSTIYSTGKVCNPDN<br>POECLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLYEYVVLKNEMARANHYE<br>DYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHLHAYVRAKLMNAYPSYIS<br>PIGCLPAHLLGDMWGRFWTNLYSLTVPFGQKPNIDVTDAMVDQAWDAQRIFKEAEKFFVS<br>VGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDIFRLMCTKVMTDDFLTAHHEMG<br>HIQYDMAYAAQPFLLRNGANEGFHEAVGEIMLSAATPKHLKSIGLLSPDFQEDNETEIN<br>FLKQALATIVGTLPTFYMLEKWRWMVFKGEIPKQWMKKWEMKREIVGVPEVPVPHDETY<br>CDPASLFHVSNDYSFIRYYTRTLYQFQFQALCQAAKHEGPLHKCDISNSTEAGQKLFNM<br>LRLGKSEPTLALENVVGAKNMNVRPLLNYFEPLFTWLKDQNKNSFVGWSTDWSPYADQS<br>IKVRISLKSALGDKAYEWNNDNEMYLFRSSVAYAMRQYFLKVKNQMLFGGEEDVRVANLKP<br>RISFNFFVTAPKNVSDIIPRTEVEKAIRMSRSRINDAFRLNDNSLEFLGIQPTLGPPNQPV<br>PVS |                   |        |

### Product information

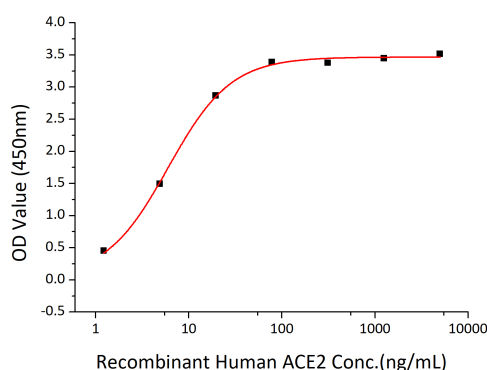
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Source</b>         | HEK293 cells                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>         | > 95% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>      | < 0.1 EU/μg of the protein by LAL method.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Formulation</b>    | Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. or Supplied as a 0.22 μm filtered solution in PBS, pH 7.4.<br>Contact us for customized product form or formulation.                                                                                                                                                                                                                                           |
| <b>Reconstitution</b> | For lyophilized protein : Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>        | Store the lyophilized protein at -20°C to -80°C for long term.<br>After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.<br>or This product is stable at ≤ -70°C for up to 1 year from the date of receipt.<br>For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.<br><b>Avoid repeated freeze/thaw cycles.</b> |

### Background

### Validated Data



Recombinant Human ACE2 Protein with hFc tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 140-150 kDa.



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