

## SARS-CoV-2 Spike:ACE2 Inhibitor Screening Assay Kit



96 rxns.

Rating: Not Rated Yet

**Price**

Sales price 10200 ?

Discount

[Ask a question about this product](#)

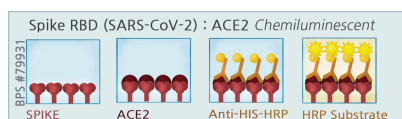
Manufacturer [BPS Bioscience](#)

Description

Description

The pandemic coronavirus disease 2019 (COVID-19) is caused by Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). As a first step of the viral replication strategy, the virus attaches to the host cell surface before entering the cell. The Spike protein receptor binding domain (RBD) recognizes and attaches to the Angiotensin-Converting Enzyme 2 (ACE2) receptor found on the surface of type I and II pneumocytes, endothelial cells, and ciliated bronchial epithelial cells. Drugs targeting the interaction between the Spike protein of SARS-CoV-2 and ACE2 may offer some protection against the viral infection.

The SARS-CoV-2 Spike:ACE2 Inhibitor Screening Assay Kit is designed for screening and profiling inhibitors of this interaction. The key to this kit is the high sensitivity of detection of bound His-labeled ACE2 by HRP-labeled Anti-His. Only a few simple steps on a microtiter plate are required for the assay. First, SARS-CoV-2 Spike is coated on a 96-well plate. Next, ACE2-His is incubated with SARS-CoV-2 Spike on the plate. Finally, the plate is treated with Anti-His-HRP followed by addition of an HRP substrate to produce chemiluminescence, which then can be measured using a chemiluminescence reader.



Materials Required But Not Supplied

PBS (Phosphate buffered saline)

# Assay Kits: SARS-CoV-2 Spike:ACE2 Inhibitor Screening Assay Kit

---

Luminometer or fluorescent microplate reader capable of reading chemiluminescence  
Adjustable micropipettor and sterile tips

## Applications

This kit is useful for screening inhibitors of SARS-CoV-2 Spike binding to ACE2.

## Supplied As

This kit comes in a convenient 96-well format, with His-labeled ACE2, purified SARS-CoV-2 Spike protein, HRP-labeled anti-His antibody, and assay buffer for 100 binding reactions.

## Storage/Stability

Up to 6 months from date of receipt, when stored as recommended.

## Synonym(s)

ACEH, covid, covid-19, covid19, coronavirus

## Format

| Catalog Number        | Component  | Amount | Storage   |   |
|-----------------------|--|--------|-----------|---|
| 79932                 | SARS-CoV-2 Spike Protein (RBD), mFc Tag                    | 5 ?g   | -80°C     | <b>Avoid multiple freeze/thaw cycles!</b> |
| <a href="#">11003</a> | <a href="#">ACE2, His-Tag</a>                              | 5 ?g   | -80°C     |   |
| <a href="#">79311</a> | <a href="#">3x Immuno Buffer 1</a>                         | 50 ml  | -20°C     |   |
| <a href="#">79728</a> | <a href="#">Blocking Buffer 2</a>                          | 50 ml  | +4°C      |   |
|                       | Anti-His-HRP   | 15 ?l  | -80°C     |   |
| <a href="#">79670</a> | <a href="#">ELISA ECL substrate A (transparent bottle)</a> | 6 ml   | Room Temp |   |
|                       | <a href="#">ELISA ECL substrate B (brown bottle)</a>       | 6 ml   | Room Temp |   |
| 79699                 | 96-well white microplate                                   | 1      | +4°C      |   |

#### Instructions for Use

See assay kit protocol for detailed instructions.

#### References

Hoffmann, M. *et al.* 2020. *Cell*, **181**:1-10

Yan, R. *et al.* *Science*, In Press 4 March 2020. DOI: 10.1126/science.abb2762

#### Warnings

Avoid freeze/thaw cycles.

#### Scientific Category

Infectious Disease

#### Reviews

There are yet no reviews for this product.