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



96 rxns.

Rating: Not Rated Yet **Price**Sales price 10200?

Discount

Ask a question about this product

ManufacturerBPS Bioscience

Description

Description

This kit is based on binding to the mouse Fc region. If your sample includes human serum, it may interfere with the assay and create a false positive signal. In this instance, we suggest using the SARS-CoV-2 Spike: ACE2 Inhibitor Screening Assay Kit. BPS Bioscience #79945.

Coronavirus disease 2019 (COVID-19) increases the risk of developing Acute Respiratory Distress Syndrome (ARDS), which is often fatal at the late stages of the infection when the SAR-CoV-2 virus causes significant damage to the lungs. 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 ACE2:SARS-CoV-2 Spike 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 Fc-tagged Spike protein by HRP-labeled Anti-mouse-Fc. Only a few simple steps on a microtiter plate are required for the assay. First, ACE2 protein is attached to a nickel-coated 96-well plate. Next, SARS-CoV-2 Spike-Fc is incubated with ACE2 on the plate. Finally, the plate is treated with Anti-mouse-Fc-HRP followed by addition of an HRP substrate to produce chemiluminescence, which then can be measured using a chemiluminescence reader.

1 / 4

| Materials Required But Not S | Supplied | | | | | |
|--|---|---------------------------|--------------------------------|------------------------------|--|--|
| | | | | | | |
| | | | | | | |
| PBS (Phosphate buffered sa | | | | | | |
| Luminometer or fluorescent | | reading chemiluminescence | | | | |
| Adjustable micropipettor and | sterile tips | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| A 11 | | | | | | |
| Applications | | | | | | |
| | | | | | | |
| | | | | | | |
| This kit is useful for screening for inhibitors of ACE2 binding to SARS-CoV-2 Spike. | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Supplied As | | | | | | |
| This kit comes in a convenie | nt OG wall format with nurific | d ACE2 and SABS CaV 2 S | anika protoina. UPD labalad ar | ati mayaa Ea ragion antihady | | |
| and assay buffer for 100 bind | | u ACEZ anu SARS-CUV-2 S | Spike proteins, HRP-labeled ar | ill-mouse FC region antibody | | |
| ,, | g | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Storage/Stability | | | | | | |
| | | | | | | |
| | | | | | | |
| Up to 6 months from date of receipt, when stored as recommended. | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Synonym(s) | | | | | | |
| | | | | | | |
| ACEH, covid, covid-19, covid19, and coronavirus | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Format | | | | | | |
| | | - | | | | |
| | Component | Amount | Storage | | | |
| Number 79932 | SARS-CoV-2 Spike Protein | 5 ?g | -80°C | | | |
| | (RBD), mFc Tag | | | | | |
| 11003 | ACE2, His-Tag | 5 ?g | -80°C | _ | | |
| 79311 79728 | 3x Immuno Buffer 1 Blocking Buffer 2 | 50 ml | -20°C +4°C | Avoid | | |
| 52130H | Secondary HRP-labeled | 15 ?l | -80°C | multiple | | |
| | antibody 1 (mouse) | | | freeze/ | | |
| <u>79670</u> | ELISA ECL substrate A | 6 ml | Room | thaw | | |
| | (transparent bottle) ELISA ECL substrate B | 6 ml | Temp Room | cycles! | | |
| | | I | 1 ' | I | | |

| | (brown bottle) | | Temp | |
|---|-----------------------------------|-------------------------------|---------------------------------|-------------------------|
| | | 1 | +4°C | |
| Instructions for Use See assay kit protocol for de References Hoffmann, M. et al. 2020. Ce | ell, 181(2): 271-280.e1-e5 | | | |
| Yan, R. et al. 2020. Science, | 367(6485) :1444-1448 | | | |
| Application Reference(s): | | | | |
| 1. <u>Hijacking SARS-Cov-2/AC binding region (2020)</u> | E2 receptor interaction by na | atural and semi-synthetic ste | roidal agents acting on functio | nal pockets on receptor |
| Warnings | | | | |
| Avoid multiple freez/thaw cyd | cles. | | | |
| Scientific Category | | | | |
| Coronavirus | | | | |
| Reviews | | | | |
| There are yet no reviews for | this product | | | |
| There are yet no reviews for | una product. | | | |

4 / 4