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- Expressversand

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Human Angiotensin-Converting Enzyme 2 (hACE2) Stable Cell Line

CATALOG NUMBER: CL-hACE2-001

Introduction

ACE2 is known to serve as the entry point into cells for some coronaviruses, including HCoV-NL63, SARS-CoV, and SARS-CoV-2. Cells in the lungs, arteries, heart, kidney, and intestines, express high level of ACE2 on their membrane surface. ACE2 is a promising drug target for treating cardiovascular diseases and for preventing COVID-19.

Description

This HEK293-hACE2 stable cell line expresses a recombinant human ACE2 (Angiotensin-Converting Enzyme 2) with the Green Fluorescent Protein (GFP) fused to its C-terminus. The cells have GFP signals on the cell membrane. The expression of ACE2 on the cell membrane was also confirmed with FACS analysis.

Parental Cells

HEK-293 cells

Gene/Enzyme Introduced

1) Human ACE2 (EC 3.4.17.23)

Other name(s): ACE-2; ACE2; hACE2; angiotensin converting enzyme 2; angiotensin converting enzyme-2; Tmem27

2) GFP (Green Fluorescent Protein)

Applications

- SARS-CoV-2 entry study
- cell based high-throughput screening of human ACE2 antagonists

Functional Tests

- this cell line has been tested positive for ACE2 specific response
- survival rate: more than 2 million/vial on the second day after thawing

Mycoplasma Contamination Test

This lot of cells have been tested and found to be free of mycoplasma contamination.

Content

- Stable hACE2 cells: 1 mL (2×10^6 cells/mL in DMEM, 10% FBS, 10% DMSO)

Growth Properties

Adherent

Cell Culture Medium

- Growth medium: DMEM+10%FBS+1X P/S +500 ug/ml G418
- Freezing medium: 10% DMSO, 90% complete cell culture medium

Storage

Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C , preferably in liquid nitrogen vapor, until ready for use.

