

Human Angiotensin-Converting Enzyme 2 (ACE2) Stable Cell Line

CATALOG NUMBER: CL-hACE2-002

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).

Parental Cells

HEK-293 cells

Gene/Enzyme Introduced

Human ACE2 (EC 3.4.17.23)

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

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 x 10⁶ 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.

Restriction

This cell line is not allowed to be transferred to other laboratory or other company. For purchasing this cell line, please contact eEnzyme LLC at info@eEnzyme.com, Telephone: +1 (240) 683 5851, FAX: +1 (240) 683 5852

