

Angiotensin-converting enzyme 2 – peptidase domain (ACE2-PD) _HEK

Description:

InVivo offers a recombinant form of the peptidase domain (PD) of Angiotensin-converting enzyme 2 (ACE2), which is produced under serum-free conditions in HEK-INV cells (InVivo proprietary optimized; human embryonic kidney, HEK293 cells). ACE2 is the cellular receptor for severe acute respiratory syndrome–coronavirus (SARS-CoV-2). The receptor-binding domain (RBD) of the SARS-CoV-2 Spike (S) protein interacts with the peptidase domain (PD, residues 19–615) of ACE2.

The construct contains residues 1–615 of ACE2, comprising the native signal peptide and the peptidase domain (PD). The mature protein is predicted to start with Gln18. The protein includes a C-terminal hexa-histidine-tag and is purified using immobilized metal exchange chromatography (IMAC).

Product-ID:	ACE2-PD_HEK
Expression System:	Mammalian; HEK
Protein Accession Number:	UniProt: Q9BYF1
Amino Acids:	Met1–Asp615 (including signal peptide)
Mature Protein N-Term:	Gln18 (predicted)
Tag:	6 x His-Tag; C-terminal
Expected Molecular Weight:	70.0 kDa (monomeric)
Formulation:	Liquid ; 20 mM NaPP, 300 mM NaCl pH 7.2
Concentration:	≥ 0.5 mg/ mL
Purity:	≥ 90% (<i>via analytical CGE under reducing conditions</i>)
Specific Activity:	≥ 1 μmol/min/mg enzyme ¹

The product is for research use or for further manufacturing only.

¹ 1 mg of enzyme is able to cleave 1 μmol of the fluorogenic peptide substrate Mca-YVADAPK(Dnp)-OH in one minute at 37°C in a reaction buffer containing 1 M NaCl and 10 μM ZnCl₂ at pH 7.5