

ACE2/ACEH Protein, Human, Recombinant (hFc)

General Information

Synonyms:	angiotensin I converting enzyme 2;ACEH
Protein Construction:	Gln18-Ser740
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9BYF1
Molecular Weight:	110.5 kDa (Predicted); 110-140 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized 2019-nCoV S-trimer Protein-His(Cat#DRA107) at 2µg/ml (100 µl/well) can bind Human ACE-2-Fc(Cat#C05Y). The ED50 of Human ACE-2-Fc(Cat#C05Y) is 23.83 ng/ml. (Regularly tested)
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 300 mM NaCl, 10% Glycerol, 100 mM Glycine, pH7.4.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Solutions are shipped with dry ice.

Protein Background

Angiotensin-Converting Enzyme 2 (ACE-2) is an integral membrane protein and a zinc metalloprotease of the ACE family, the ACE family includes somatic and germinal ACE. ACE-2 cleaves angiotensins I and II as a carboxypeptidase, ACE-2 converts angiotensin I to angiotensin 1-9, and angiotensin II to angiotensin 1-7. ACE-2 is also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. ACE-2 can be high expressed in testis, kidney and heart, in colon, small intestine and ovary at moderate levels. Captopril and lisinopril as the classical

ACE inhibitor don't inhibit ACE-2 activity. ACE-2 may play an important role in regulating the heart function.

Reference

- Koitka A,et al.(2008) Angiotensin converting enzyme 2 in the kidney. Clin Exp Pharmacol Physiol. 35(4): 420-5.
- Raizada MK,et al.(2007) ACE2: a new target for cardiovascular disease therapeutics. J Cardiovasc Pharmacol. 50(2): 112-9.
- Imai Y,et al.(2007) Angiotensin-converting enzyme 2 (ACE2) in disease pathogenesis. Circ J. 74(3): 405-10.
- Turner AJ,et al.(2004) ACE2: from vasopeptidase to SARS virus receptor. Trends Pharmacol Sci. 25(6): 291-4.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481