

Recombinant Human ACE/CD143 Protein

Catalog No.: RP01863

Sequence Information

Species	Gene ID
Human	1636
Swiss Prot	Tags
P12821	N-his

Synonyms

ACE, DCP, DCP1, Angiotensin-converting enzyme, ACE, 3.4.15.1, Dipeptidyl carboxypeptidase I, Kininase II, CD143, Cleaved into: Angiotensin-converting enzyme, soluble form.

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
142.60 kDa	140-180 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Angiotensin I-converting enzyme (ACE, CD143) hydrolyzes small peptides such as angiotensin I, bradykinin, substance P, LH-RH and several others and thus plays a key role in blood pressure regulation and vascular remodeling. ACE plays a crucial role in blood pressure regulation, vascular remodeling, and immunity. ACE is a Zn²⁺ carboxydipeptidase which plays a key role in the regulation of blood pressure and also in the development of vascular pathologies and tissue remodeling. ACE is expressed as two isoforms: somatic ACE (sACE), which is responsible for its hypertensive properties, and a smaller isoform (testicular ACE), which is expressed solely in germinal cells.

Basic Information

Description

Recombinant Human ACE Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu30-Leu1261) of Human ACE (Accession #NP_000780.1) fused with a His tag at the N-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

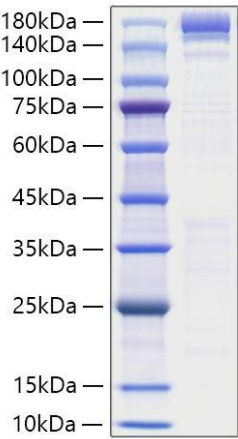
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human ACE/CD143 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.