

Recombinant Human ACE/CD143 Protein

Catalog No.: RP01863 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 1636 P12821

Tags

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

 $< 0.1 \; \text{EU/}\mu\text{g}$ 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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.

Bio-Activity

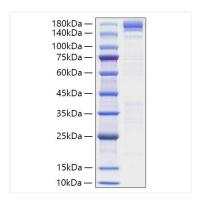
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



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