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Recombinant Mouse ACE protein (rFc Tag)



Catalog Number: Eg3036

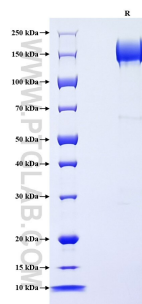
Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Mouse ACE protein Leu35-Gln1264 (Accession# P09470-1) with a rabbit IgG Fc tag at the C-terminus. GeneID: 11421 Accession: P09470-1 Predicted Molecular Mass: 167.9 kDa SDS-PAGE: 140-200 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	Angiotensin I Converting Enzyme (ACE) is a transmembrane zinc metallopeptidase that hydrolyzes peptide chains by removing the dipeptide from the C-terminus. ACE is a key component of the renin-angiotensin system (RAS), which plays an important role in blood pressure homeostasis through the production of the vasoconstrictor peptide angiotensin II. ACE also plays a role in fertility, immunity, hematopoiesis, and diseases such as obesity, fibrosis, and Alzheimer's disease dementia. ACE is relevant to immune regulation in that endogenous ACE has been detected in a variety of immune cell populations including macrophages and neutrophils, and its overexpression results in enhanced bactericidal and antitumor responses independent of angiotensin II.		
References	1. Oosthuizen D, et al. (2022). J Renin Angiotensin Aldosterone Syst. 2022:9028969. 2. Rahimi Z. (2012). J Nephropathol. 1(3):143-51. 3. Lubbe L, et al. (2020). Clin Sci (Lond). 134(21):2851-2871.		
Synonyms			

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse ACE was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.