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# Recombinant Human Angiotensinogen/AGT protein (rFc Tag)



Catalog Number: Eg3099

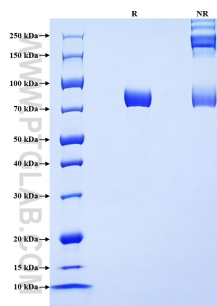
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/μg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human Angiotensinogen protein Asp25-Ala476 (Accession# P01019) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 183</p> <p><b>Accession:</b> P01019</p> <p><b>Predicted Molecular Mass:</b> 75.8 kDa</p> <p><b>SDS-PAGE:</b> 75-85 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Angiotensinogen (AGT), a precursor of angiotensin II (Ang II), is expressed and synthesized largely in the liver and cleaved by the enzyme renin in response to lowered blood pressure. It has a key role in mediating vascular constriction and regulating salt and fluid homeostasis. The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. Mutations in this gene are associated with susceptibility to essential hypertension, and can cause renal tubular dysgenesis, a severe disorder of renal tubular development.</p>		
References	<ol style="list-style-type: none"><li>1. Hong Lu. et al. (2016). Hypertens Res.39(7):492-500.</li><li>2. Tanvir Kahlon. et al.(2022). JACC Heart Fail.10(10):699-713.</li><li>3. M Caulfield. et al. (1996). Hypertension. 28(6):1123-5.</li><li>4. L Morgan. et al. (1996). Int J Biochem Cell Biol. 28(11):1211-22.</li></ol>		
Synonyms	AGT, Angiotensinogen, Angiotensinogen/AGT, Serpin A8, SERPINA8		

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

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Selected Validation Data



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