For Research Use Only

Recombinant Mouse Angiotensinogen protein (rFc Tag) (HPLC verified)

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Catalog Number: Eg2763

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse Angiotensinogen protein Asp25-Val477 (Accession# P11859) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
11606

Accession:
P11859

Predicted Molecular Mass:
75.6 kDa

SDS-PAGE:
70-85 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

Angiotensinogen is a precursor of angiotensin II (Ang II), is expressed and synthesized largely in the liver and is cleaved by the enzyme renin in response to lowered blood pressure. AGT is an essential component of the RAS. AGT is cleaved by renin enzyme to produce angiotensin 1 (Ang I) when blood pressure is reduced, and AGT-converting enzyme (ACE) splits Ang I to generate angiotensin 2 (Ang II). RAS plays an important role in maintaining fluid and electrolyte homeostasis, and RAS irregulated expression leads to kidney disease, heart failure, hypertension, and diabetes.

References

1. Matsusaka T, et al. (2012). J Am Soc Nephrol. 23(7):1181-9.
2. Lu H, et al. (2016). Hypertens Res.39(7):492-500.
3. Li S, et al. (2021). Mol Med Rep. 23(3):193.
4. Wegman-Ostrosky T, et al. (2015). J Renin Angiotensin Aldosterone Syst.16(2):227-33.
5. Ames MK, et al. (2019). J Vet Intern Med. 33(2):363-382.
6. Li XC, et al. (2017). 125(Pt A):21-38.

Synonyms

Agt, Serpina8

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

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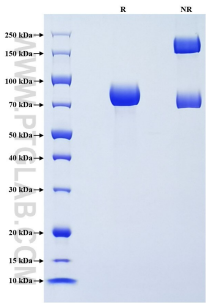
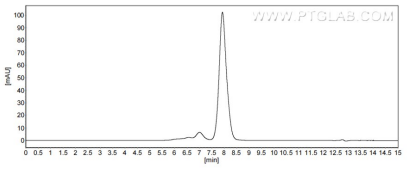
Selected Validation Data



Purity of Recombinant Mouse 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.



The purity of Mouse Angiotensinogen was greater than 90% as determined by SEC-HPLC.