

For Research Use Only

Recombinant Rat Angiotensinogen/AGT protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3273

Basic Information

Species:
Rat

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 Rat Angiotensinogen protein Asp25-Val477 (Accession# P01015) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
24179

Accession:
P01015

Predicted Molecular Mass:
75.8 kDa

SDS-PAGE:
75-90 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 (AGT) is a key component of the renin-angiotensin system (RAS), which plays a crucial role in blood pressure regulation and cardiovascular homeostasis. Angiotensinogen is expressed in various tissues, including the liver, kidneys, and brain. In rats, the expression of angiotensinogen can be influenced by various factors such as stress, diet, and hormonal changes. For example, angiotensinogen expression in the brain can be affected by dehydration and salt loading, leading to changes in blood pressure and fluid balance. Transgenic rats with ubiquitous expression of angiotensinogen have been developed to study the role of the protective arm of the RAS in cardio-renal diseases.

References

1. Ranasinghe P, Addison ML, et al. (2022) J Am Heart Assoc. 11(20):e027694.
2. Uijl E, Mirabito Colafella KM, et al. (2019) Hypertension. 73(6):1249-1257.
3. Colón NS, Pantho AF, et al. (2022) Pregnancy Hypertens. 227:1-5.
4. Ye D, Cruz-López EO, et al. (2024) Hypertension. 81(7):1491-1499.

Synonyms

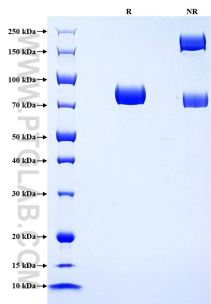
Agt, Angiotensin 1-4, Angiotensin 1-5, Angiotensin 1-7, Angiotensin 1-9

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

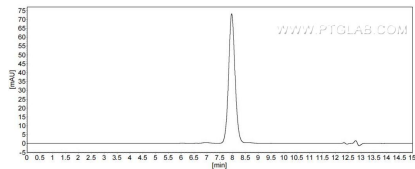
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Selected Validation Data



Purity of Recombinant Rat 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 Rat Angiotensinogen was greater than 90% as determined by SEC-HPLC.