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Human CellExp SERPIN A8, human recombinant protein

Angiotensinogen, SerpinA8, AGT, ANHU
Catalog # PBV10866r

Specification

Human CellExp SERPIN A8, human recombinant protein - Product info

Primary Accession	P01019
Calculated MW	**The protein is fused with 6×His tag at the N-terminus, has a calculated MW of 50.6 kDa. The predicted N-terminus is Asp 34. DTT-reduced Protein migrates as 55-60 kDa due to glycosylation. KDa**

Human CellExp SERPIN A8, human recombinant protein - Additional Info

Gene ID	**183**
Gene Symbol	**AGT**

Other Names
Angiotensinogen, SerpinA8, AGT, ANHU

Gene Source	**Human**
Source	**HEK 293 cells**
Assay&Purity	**SDS-PAGE; ≥98%**
Assay2&Purity2	**HPLC;**
Recombinant	**Yes**

Target/Specificity
SERPINA8

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized powder

Storage
-20°C; Lyophilized from 0.22 µm filtered solution in PBS. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp SERPIN A8, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp SERPIN A8, human recombinant protein - Images

Human CellExp SERPIN A8, human recombinant protein - Background

Serpin A8 also known as angiotensinogen (AGT) , is a member of the serpin family. It is an α-2-globulin that is expressed by the liver and secreted in plasma. As essential component of the renin-angiotensin system (RAS), Angiotensinogen is cleaved into three chains: Angiotensin-1 (Ang I), Angiotensin-2 (Ang II), and Angiotensin-3 (Ang III) in lowered blood pressure by the enzyme renin. Angiotensin-1 is a substrate of ACE (angiotensin converting enzyme) that removes a dipeptide to yield the physiologically active peptide angiotensin-2. Angiotensin-2 acts directly on vascular smooth muscle as a potent vasoconstrictor, affects cardiac contractility and heart rate through its action on the sympathetic nervous system, and alters renal sodium and water absorption through its ability to stimulate the zona glomerulosa cells of the adrenal cortex to synthesize and secrete aldosterone. Angiotensin-3 stimulates aldosterone release. Defects in AGT are a cause of renal tubular dysgenesis (RTD).

Human CellExp SERPIN A8, human recombinant protein - References

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