

Serpin A8/Angiotensinogen Protein, Human (HEK293, His, solution)

Cat. No.:	HY-P72477
Synonyms:	Angiotensinogen; Serpin A8; AGT and SERPINA8
Species:	Human
Source:	HEK293
Accession:	P01019/AAH11519.1 (D34-A485)
Gene ID:	183
Molecular Weight:	55.0-72.27 kDa

PROPERTIES

AA Sequence	<pre> DRVYIHPFHL V I H N E S T C E Q L A K A N A G K P K D P T F I P A P I Q A K T S P V D E K A L Q D Q L V L V A A K L D T E D K L R A A M V G M L A N F L G F R I Y G M H S E L W G V V H G A T V L S P T A V F G T L A S L Y L G A L D H T A D R L Q A I L G V P W K D K N C T S R L D A H K V L S A L Q A V Q G L L V A Q G R A D S Q A Q L L L S T V V G V F T A P G L H L K Q P F V Q G L A L Y T P V V L P R S L D F T E L D V A A E K I D R F M Q A V T G W K T G C S L M G A S V D S T L A F N T Y V H F Q G K M K G F S L L A E P Q E F W V D N S T S V S V P M L S G M G T F Q H W S D I Q D N F S V T Q V P F T E S A C L L L I Q P H Y A S D L D K V E G L T F Q Q N S L N W M K K L S P R T I H L T M P Q L V L Q G S Y D L Q D L L A Q A E L P A I L H T E L N L Q K L S N D R I R V G E V L N S I F F E L E A D E R E P T E S T Q Q L N K P E V L E V T L N R P F L F A V Y D Q S A T A L H F L G R V A N P L S T A </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Serpin A8, also known as angiotensinogen, stands as an indispensable element within the renin-angiotensin system (RAS), a
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potent regulatory framework governing blood pressure, body fluid, and electrolyte homeostasis. Operating directly on vascular smooth muscle, it exerts a formidable vasoconstrictive influence and dynamically influences cardiac contractility and heart rate through interactions with the sympathetic nervous system. Additionally, angiotensinogen plays a pivotal role in shaping renal sodium and water absorption, eliciting its effects by stimulating zona glomerulosa cells in the adrenal cortex to synthesize and release aldosterone. This multifaceted functionality is mediated through the binding of angiotensinogen to angiotensin receptors AGTR1 and AGTR2, orchestrating a cascade of physiological responses. Beyond its pivotal role in the RAS, angiotensinogen exhibits an ability to engage with the DEAR/FBXW7-AS1 receptor, expanding its repertoire of molecular interactions and suggesting broader implications for its regulatory influence.

Caution: Product has not been fully validated for medical applications. For research use only.

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