Proteins



Product Data Sheet

Serpin A8/Angiotensinogen Protein, Rat (HEK293, His)

Cat. No.: HY-P73651

Synonyms: Angiotensinogen; Serpin A8; AGT; SERPINA8

Species:

Source: HEK293

P01015 (D25-V477) Accession:

Gene ID: 24179

Molecular Weight: Approximately 58-75 kDa due to the glycosylation.

PROPERTIES

AA Sequence	DRVYIHPFHL LYYSKSTCAQ LENPSVETLP EPTFEPVPIQ AKTSPVDEKT LRDKLVLATE KLEAEDRQRA AQVAMIANFM GFRMYKMLSE ARGVASGAVL SPPALFGTLV SFYLGSLDPT ASQLQVLLGV PVKEGDCTSR LDGHKVLTAL QAVQGLLVTQ GGSSSQTPLL QSTVVGLFTA PGLRLKQPFV ESLGPFTPAI FPRSLDLSTD PVLAAQKINR FVQAVTGWKM NLPLEGVSTD STLFFNTYVH FQGKMRGFSQ LTGLHEFWVD NSTSVSVPML SGTGNFQHWS DAQNNFSVTR VPLGESVTLL LIQPQCASDL DRVEVLVFQH DFLTWIKNPP PRAIRLTLPQ LEIRGSYNLQ DLLAQAKLST LLGAEANLGK MGDTNPRVGE VLNSILLELQ
Appearance	A G E E Q P T E S A Q Q P G S P E V L D V T L S S P F L F A I Y E R D S G A L H F L G R V D N P Q N V V Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

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Background

Serpin A8, also known as angiotensinogen, stands as an essential component within the intricate network of the reninangiotensin system (RAS), serving as a potent regulator of blood pressure, body fluid, and electrolyte homeostasis. This multifaceted protein exerts its influence on various physiological processes. Directly impacting vascular smooth muscle, it functions as a formidable vasoconstrictor, affecting cardiac contractility and heart rate through interactions with the sympathetic nervous system. Furthermore, angiotensinogen plays a crucial role in renal function by modulating sodium and water absorption, achieved by stimulating adrenal cortex zona glomerulosa cells to synthesize and release aldosterone. These diverse actions are mediated by its binding to angiotensin receptors AGTR1 and AGTR2. Beyond its role in the RAS, angiotensinogen demonstrates additional interactions, such as binding to the DEAR/FBXW7-AS1 receptor, expanding its involvement in cellular signaling networks.

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

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