

Angiotensin-2 Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78381
Synonyms:	AGPT2; ANG2; ANG-2; angiotensin 2; Angiotensin-2; angiotensin-2a; angiotensin-2B; angiotensin 2; ANGPT2; Tie2-ligand
Species:	Human
Source:	HEK293
Accession:	O15123-1 (K275-F496)
Gene ID:	285
Molecular Weight:	30-40 kDa

PROPERTIES

AA Sequence	<p>K E E Q I S F R D C</p> <p>A E V F K S G H T T N G I Y T L T F P N S T E E I K A Y C D M</p> <p>E A G G G G W T I I Q R R E D G S V D F Q R T W K E Y K V G F G N P S G E Y W L</p> <p>G N E F V S Q L T N Q Q R Y V L K I H L K D W E G N E A Y S L Y E H F Y L S S E</p> <p>E L N Y R I H L K G L T G T A G K I S S I S Q P G N D F S T K D G D N D K C I C</p> <p>K C S Q M L T G G W W F D A C G P S N L N G M Y Y P Q R Q N T N K F N G I K W Y</p> <p>Y W K G S G Y S L K A T T M M I R P A D F</p>
Biological Activity	Immobilized Human ANGPT2 His at 2 µg/mL (100 µL/Well). Dose response curve for Anti-ANGPT2 Antibody hFc with the EC ₅₀ of 9.3-14.8 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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

Background	The Angiotensin-2 (ANGPT2) protein binds to TEK/TIE2, competing for the ANGPT1 binding site and thereby modulating ANGPT1 signaling. This interaction can induce the tyrosine phosphorylation of TEK/TIE2 even in the absence of ANGPT1. In
-------------------	---

the absence of angiogenic inducers, such as VEGF, ANGPT2's action leads to the loosening of cell-matrix contacts, potentially inducing endothelial cell apoptosis and consequent vascular regression. However, in the presence of VEGF, ANGPT2 collaborates to facilitate endothelial cell migration and proliferation, acting as a permissive angiogenic signal. Furthermore, ANGPT2 is involved in the regulation of lymphangiogenesis. The protein also interacts with TEK/TIE2, competing for the same binding site as ANGPT1, and additionally interacts with ITGA5, contributing to its multifaceted role in angiogenesis and vascular regulation.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA