

## Angiotensin-2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P72830
Synonyms:	Angiotensin-2; ANG-2; ANGPT2
Species:	Mouse
Source:	HEK293
Accession:	O35608 (K275-F496)
Gene ID:	11601
Molecular Weight:	Approximately 33.4 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           K E E Q T T F R D C    A E I F K S G L T T    S G I Y T L T F P N    S T E E I K A Y C D            M D V G G G G W T V    I Q H R E D G S V D    F Q R T W K E Y K E    G F G S P L G E Y W            L G N E F V S Q L T    G Q H R Y V L K I Q    L K D W E G N E A H    S L Y D H F Y L A G            E E S N Y R I H L T    G L T G T A G K I S    S I S Q P G S D F S    T K D S D N D K C I            C K C S Q M L S G G    W W F D A C G P S N    L N G Q Y Y P Q K Q    N T N K F N G I K W            Y Y W K G S G Y S L    K A T T M M I R P A    D F         </p>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Angiotensin-2 Protein, Mouse (HEK293, His) at 2 µg/mL (100 µl/well) can bind mouse TEK-Fc and the EC <sub>50</sub> is 350-900 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Angiotensin-2 Protein (ANGPT2) binds to TEK/TIE2 and competes with ANGPT1 for the binding site, thereby modulating ANGPT1 signaling. It has the ability to induce tyrosine phosphorylation of TEK/TIE2 even in the absence of ANGPT1. In the absence of angiogenic inducers like VEGF, ANGPT2 can cause loosening of cell-matrix contacts, potentially leading to
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endothelial cell apoptosis and subsequent vascular regression. However, when working in conjunction with VEGF, it can promote endothelial cell migration and proliferation, making it a permissive angiogenic signal. ANGPT2 also plays a role in the regulation of lymphangiogenesis. Additionally, it interacts with TEK/TIE2, competing for the same binding site as ANGPT1, and interacts with ITGA5.

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

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