

FITC-Labeled Angiotensin-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P78651
Synonyms:	ANGPT2; AGPT2; ANG2; Angiotensin-2
Species:	Human
Source:	HEK293
Accession:	O15123 (K275-F496)
Gene ID:	285
Molecular Weight:	30-40 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, pH 7.4. Normally 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. 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 1 year, protect from light. 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	<p>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.</p>
------------	---

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