

Angiotensin-2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P72827
Synonyms:	Angiotensin-2; ANG-2; ANGPT2
Species:	Human
Source:	HEK293
Accession:	O15123 (Y19-F496)
Gene ID:	285
Molecular Weight:	110-115 kDa

PROPERTIES

AA Sequence

MWQIVFFTL S	CDLVLA AAYN	NFRKSMDSIG	KKQYQVQHGS
CSYTFLLPEM	DNCRSSSSPY	VSNAVQRDAP	LEYDDSVQRL
QVLENIMENN	TQWLMKLENY	IQDNMKKEMV	EIQQNAVQNQ
TAVMIEIGTN	LLNQTAEQTR	KLTDVEAQVL	NQTTRLELQL
LEHSLSTNKL	EKQILDQTSE	INKLQDKNSF	LEKKVLAMED
KHIIQLQSIK	E EKDQLQVLV	SKQNSII EEL	EKKIVTATVN
NSVLQKQQHD	LMETVNNLLT	MMSTSNSAKD	PTVAKEEQIS
FRDCAEVFKS	GHTTNGIYTL	TFPNSTEEIK	AYCDMEAGGG
GWTIIQRRED	GSVDFQRTWK	EYKVGFGNPS	GEYWLGNFEV
SQLTNQQRVY	LKIHLKDWEG	NEAYS LYEHF	YLSSEELNYR
IHLKGLTGTA	GKISSISQPG	NDFSTKDGDN	DKCICKCSQM
LTGGWWFDAC	GPSNLNGMY Y	PQRQNTNKFN	G I K W Y Y W K G S
GYSLKAT TMM	IRPAD F		

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants 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 ddH₂O.

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 Angiopoietin-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.

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