



# ANG-2 Recombinant Protein

Cat. No.: 40-540



## Ψ Specifications

<b>SPECIES:</b>	Human
<b>SOURCE SPECIES:</b>	CHO cells
<b>SEQUENCE:</b>	DAPLEYDDSV QRLQVLENIM ENNTQWLMKL ENYIQDNMCK EMVEIQQNAV QNQTAVMIEI GTNLLNQTAE QTRKLTDEVA QVLNQTTRE LQLEHSLST NKLEKQILDQ TSEINKLQDK NSFLEKKVLA MEDKHIIQLQ SIKEEKDQLQ VLVSKQNSII EELEKKIVTA TVNNSVLQKQ QHDLMETVNN LLTMMSTSNS AKDPTVAKEE QISFRDCAEV FKSGHTTNGI YLTFFPNSTE EIKAYCDMEA GGGGWTIIQR REDGSVDFQR TWKEYKVGFG NPSGEYWLGN EFSVQLTNQQ RYVLKIHLKD WEGNEAYS LY EHFYLSSEEL NYRIHLKGLT GTAGKISSIS QPGNDFSTKD GDNDKCICKC SQMLTGGWWF DACGPSNLNG MYYPQRQNTN KFNGIKWYYW KGSYSLKAT TMMIRPADFH HHHHH
<b>TESTED APPLICATIONS:</b>	

## Ψ Properties

<b>PURITY:</b>	Greater than 95% by SDS-PAGE gel and HPLC analyses.
<b>PHYSICAL STATE:</b>	Lyophilized

<b>STORAGE CONDITIONS:</b>	The lyophilized ANG-2 recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted ANG-2 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing Yeast ANG-2 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
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## Additional Info

<b>OFFICIAL SYMBOL:</b>	ANGPT2
<b>ALTERNATE NAMES:</b>	ANG2, AGPT2, Angiopoietin-2, ANG-2
<b>ACCESSION NO.:</b>	NP_001112359.1
<b>PROTEIN GI NO.:</b>	169646749
<b>GENE ID:</b>	285

## Background and References

<b>BACKGROUND:</b>	<p>ANG-2 binds to the endothelial cell specific receptor Tie2, but, in contrast to ANG-1 does not induce tyrosine phosphorylation. Consequently, ANG-2 modulates ANG-1 activation of Tie2 and, depending on the physiological and biochemical environment, can act either as a n agonist or antagonist of Tie2 induced angiogenesis. The signaling interactions of ANG-1, ANG-2 and Tie2, along with less characterized ANG-3 and ANG-4, are required for embryonic and adult angiogenesis. Physiologically, ANG-1 and ANG-2 are associated with sprouting, tube formation, and structural integrity of newly formed blood vessels. Mature human ANG-2 is a secreted protein containing 480 amino acid residues. ANG-2 is composed of an alpha helix rich "coiled coil" N-terminal domain and fibrinogen like C-terminal domain. ANG-2 exists predominantly in the form of a disulfide-linked dimer. Recombinant human ANG-2 is a C-terminal histidine tagged glycoprotein which migrates with an apparent molecular mass of 60.0 - 70.0 kDa by SDS-PAGE under reducing conditions. Sequencing analysis shows an N-terminal sequence starting with residue 68 (D) of the ANG-2 precursor protein.</p>
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