

## 32-20587: Recombinant Human ANG-2(Discontinued)

**Alternative Name :** Angiopoietin-2, ANGPT2

### Description

**Source:CHO cells**

ANG-2 binds to the endothelial cell specific receptor Tie-2, but, in contrast to ANG-1, does not induce tyrosine phosphorylation. Consequently, ANG-2 modulates ANG-1 activation of Tie-2 and, depending on the physiological and biochemical environment, can act either as an agonist or antagonist of Tie-2 induced angiogenesis. The signaling interactions of ANG-1, ANG-2 and Tie-2, 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. The calculated molecular weight of Recombinant Human ANG-2 is 50.1 kDa.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Purity: >= 95% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** DAPLEYDDSV QRLQVLENIM ENNTQWLMKL ENYIQDNMCK EMVEIQQNAV QNQTAVMIEI GTNLLNQTAE  
QTRKLT DVEA QVLNQTT RLE LQLEHSLST NKLEKQILDQ TSEINKLQDK NSFLEKKVLA MEDKHIIQLQ  
SIKEEKDQLQ VLVSKQNSII EEELEKKIVTA TVNNSVLQKQ QHDLMETVNN LLTMMSTSNS AKDPTVAKEE  
QISFRDCAEV FKS GHTTNGI YTLTFPNSTE EIKAYCDMEA GGGGWTTIQR REDGSVDFQR TWKEYKVGFG  
NPSGEYWLGN EFVSQLTNQQ RYVLKIHLKD WEGNEAYS LY EHFYLSSEEL NYRIHLKGLT GTAGKISSIS  
QPGNDFSTKD GDNDKCICKC SQMLTGGWWF DACGPSNLNG MYPQRQNTN KFNIGKWWYWW  
KSGSYSLKAT TMMIRPADFH HHHHH

### Application Note

Determined by its ability to stimulate tubulogenesis in HUVEC cells using a concentration of 0.2 µg/ml