ANG-2 Human CHO cells

Product Data Sheet

Type: Recombinant
Source: CHO cells
Species: Human
Other names: Angiopoietin-2, ANGPT2

Cat. No.:

RBG10058005	(5 µg)
RBG10058020	(20 µg)
RBG10058100	(100 µg)

Description

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.

Research topic

Apoptosis, Bone and cartilage metabolism, Cardiovascular disease

Amino Acid Sequence

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DAPLEYDDSV QRLQVLENIM ENNTQWLMKL ENYIQDNMKK EMVEIQQNAV QNQTAVMIEI GTNLLNQTAE QTRKLTDVEA
QVLNQTTRLE LQLLEHSLST NKLEKQILDQ TSEINKLQDK NSFLEKKVLA MEDKHIIQLQ SIKEEKDQLQ VLVSKQNSII
EELEKKIVTA TVNNSVLQKQ QHDLMETVNN LLTMMSTSNS AKDPTVAKEE QISFRDCAEV FKSGHTTNGI YTLTFPNSTE
EIKAYCDMEA GGGGWTIIQR REDGSVDFQR TWKEYKVGFG NPSGEYWLGN EFVSQLTNQQ RYVLKIHLKD WEGNEAYSLY
EHFYLSSEEL NYRIHLKGLT GTAGKISSIS QPGNDFSTKD GDNDKCICKC SQMLTGGWWF DACGPSNLNG MYYPQRQNTN
KFNGIKWYYW KGSGYSLKAT TMMIRPADFH HHHHH
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Source

CHO cells

Purity

95%

Biological Activity

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

Storage, Stability/Shelf Life

-20°C

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