

32-6296: ANGPT2 Human

Alternative Name : Angiopoietin-2, Angiopoietin2, ANGPT2, ANG2, Å ANG-2, ANGPT-2.

Description

Source: Chinese Hamster Ovary Cells (CHO).

Sterile filtered colorless solution.

ANGPT2 aka Angiopoietin-2 competes for binding to the TIE2 receptor and blocks angiopoietin-1 aka ANGPT1 induced TIE2 autophosphorylation during vasculogenesis. ANGPT-2 is a naturally occurring antagonist of ANGPT-1. ANGPT2 induces tyrosine phosphorylation of TEK/TIE2 in the lack of Angiopoietin-2. In the deficiency of VEGF an angiogenic inducer, ANGPT-2 induces endothelial cell apoptosis resulting in vascular regression. ANGPT2 along with VEGF enable endothelial cell migration and proliferation, resulting in permissive angiogenic signal.

ANGPT2 produced in Chinese hamster ovary (CHO) cells by recombinant DNA technology is a single, polypeptide chain (19-496 a.a.) and fused to a 6 aa His Tag at C-terminus containing a total of 484 amino acids and having a molecular mass of 55.7kDa. ANGPT2 shows multiple bands between 50-100kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : ANGPT2 protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : YNNFRKSMDS IGKKQYQVQH GSCSYTFLLP EMDNCRSSSS PYVSNVQQRD APLEYDDSVQRLQVLENIME
NNTQWLMKLE NYIQDNMKKEMVEIQNAVQ NQTAVMIEIG TNLNQTAEQTRKLT DVEAQ VLNQTTRLEL
QLLEHSLSTN KLEKQILDQT SEINKLQDKNSFLEKKVLAMEDKHIIQLQS IKEEKDQLQV LVSKQNSIIE
ELEKKIVTAT VNNSVLQKQHDLMETVNNL LTMSTNSA KDPTVAKEEQ ISFRDCAEVFKSGHTTNGIY
TLTFPNSTEEIKAYCDMEAG GGGWTIIQRR EDGSVDFQRT WKEYKVGFGN PSGEYWLGN
FVSQLTNQQRVYVVKIHLKDWEGNEAYSLEY HFYLSSEELN YRIHLKGLTG TAGKISSISQ
PGNDFSTKDGNDKCICKCS QMLTGGWWFD ACGPSNLNGM YYPQRQNTNKFNGIKWYYWK
GSGYSLKATT MMIRPADFHH HHHH