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# Recombinant human Angiopoietin 2/ANGPT2 protein

Catalog Number: ATGP3853

### **PRODUCT INFORMATION**

## **Expression system**

CHO Cell

#### **Domain**

19-496aa

#### UniProt No.

015123

#### **NCBI Accession No.**

NP 001138

### **Alternative Names**

Angiopoietin-2 isoform a, ANGPT2, AGPT2, ANG2

## PRODUCT SPECIFICATION

## **Molecular Weight**

55.7 kDa (484aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

### **Biological Activity**

Measured by its binding ability in a functional ELISA with Human TIE-2 (CAT# ATGP3947)

### Tag

His-Tag

## **Application**

SDS-PAGE, Bioactivity

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

Angiopoietin-2, also known as ANGPT2, is a member of the ANG family. It has been identified as ligands for



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vascular endothelial-specific Tie2 receptor tyrosine kinase that interact with ANG2. This protein may be important growth factors in the generation of new blood vessels. Also, it is over-expression disrupts blood vessel formation in the mouse embryo. This protein is strongly expressed only at sites of vascular remodeling. It has been suggested that it may act synergistically with other cytokines such as vascular endothelial growth factor to promote tumor-associated Angiogenesis and tumor progression. Recombinant human Angiopoietin-2 fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

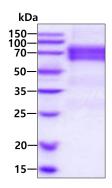
YNNFRKSMDS IGKKQYQVQH GSCSYTFLLP EMDNCRSSSS PYVSNAVQRD APLEYDDSVQ RLQVLENIME NNTQWLMKLE NYIQDNMKKEMVEIQQNAVQ NQTAVMIEIG TNLLNQTAEQ TRKLTDVEAQ VLNQTTRLEL QLLEHSLSTN KLEKQILDQT SEINKLQDKN SFLEKKVLAMEDKHIIQLQS IKEEKDQLQV LVSKQNSIIE ELEKKIVTAT VNNSVLQKQQ HDLMETVNNL LTMMSTSNSA KDPTVAKEEQ ISFRDCAEVFKSGHTTNGIY TLTFPNSTEE IKAYCDMEAG GGGWTIIQRR EDGSVDFQRT WKEYKVGFGN PSGEYWLGNE FVSQLTNQQR YVLKIHLKDWEGNEAYSLYE HFYLSSEELN YRIHLKGLTG TAGKISSISQ PGNDFSTKDG DNDKCICKCS QMLTGGWWFD ACGPSNLNGM YYPQRQNTNKFNGIKWYYWK GSGYSLKATT MMIRPADF< HH HHHH>

#### **General References**

Maisonpierre PC., et al. (1997) Science. 277:55-60. Nowicki M., et al. (2017) Ann Hematol. 96:2103-2112.

#### **DATA**

#### **SDS-PAGE**

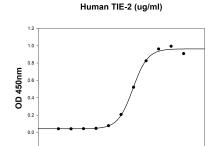


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

## **Biological Activity**

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10-4 10-3 10-2 10-1

Human Angiopoietin-2 is coated at 5 ug/ml (100 ul/well) can bind Human TIE-2 (CAT# ATGP3947) in a Functional ELISA assay.

