

Recombinant human Angiopoietin 2/ANGPT2 protein

Catalog Number: ATGP3853

PRODUCT INFORMATION

Expression system

CHO Cell

Domain

19-496aa

UniProt No.

O15123

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

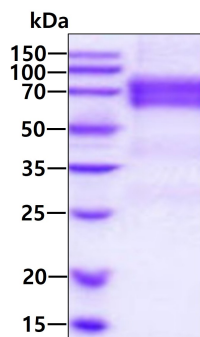
YNNFRKSMDS IGKKQYQVQH GSCSYTFLLP EMDNCRSSSS PYVSNVQRD APLEYDDSVQ RLQVLENIME NNTQWLMKLE
 NYIQDNMKKEMVEIQNAVQ NQTAVMIEIG TNLNQTAEQ TRKLT DVEAQ VLNQTTRLEL QLLEHSLSTN KLEKILDQT
 SEINKLQDKN SFLEKKVLAMEDKHIIQLQS IKEEKDQLQV LVSQNSIIE ELEKKIVTAT VNNSVLQKQQ HDLMETVNNL
 LTMMSSTNSA KDPTVAKEEQ ISFRDCAEVFKSGHTTNGIY TLTFPNSTEE IKAYCDMEAG GGGWTIIQRR EDGSVDFQRT
 WKEYKVGFGN PSGEYWLGNE FVSQLTNQQR YVLKIHLKDWEGNEAYSLEY HFYLSSEELN YRIHLKGLTG TAGKISSISQ
 PGNDFSTKDG DNDKICKCS 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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Human Angiopoietin-2 is coated at 5 ug/ml (100 ul/well) can bind Human TIE-2 (CAT# ATGP3947) in a Functional ELISA assay.

