

Recombinant human Angiopoietin-2

Catalog No: #AP72425



Package Size: #AP72425-1 20ug #AP72425-2 100ug #AP72425-3 1mg

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Description

Product Name	Recombinant human Angiopoietin-2
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:19-485aaSequence Info:Partial
Accession No.	O15123
Uniprot	O15123
GeneID	285;
Calculated MW	55.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	YNNFRKSMDSIGKKQYQVQHSGCSYTFLLPEMDNCRSSSSPYVSNVQRDAPLEYDDSVQRLQVLENIMEN NTQWLMKLENIQDNMKKEMVEIQNAVQNQTAVMIEIGTNLLNQTAEQTRKLT DVEAQVLNQTRLELQLE HSLSTNKLEKQILDQTSEINKLQDKNSFLEKKVLAMEDKHIIQLQSIKEEKDQLQVLVSKQNSIIEELEKKIVTATV NNSVLQKQQHDLMETVNNLLTMMSTSNSAKDPTVAKEEQISFRDCAEVFKSGHTTNGIYTLTFPNSTEEIKAY CDMEAGGGGWTTIQRREDGSVDFQRTWKEYKVGFGNPSGEYWLGNFVSQLTNQQRYVLKIHLKDWEGNE AYSLEYEHFYLSSSEELNYRIHLKGLTGTAGKISSISQPGNDFSTKDGDNCKICKCSQMLTGGWWFDACGPSNL NGMYYPQRQNTNKFNGIKWYYWKSGSYSLK
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Binds to TEK,TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling. Can induce tyrosine phosphorylation of TEK,TIE2 in the absence of ANGPT1. In the absence of angiogenic inducers, such as VEGF, ANGPT2-mediated loosening of cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation, thus serving as a permissive angiogenic signal.

References

Angiopoietin-2, a natural antagonist for Tie2 that disrupts in vivo angiogenesis.Maisonpierre P.C., Suri C., Jones P.F., Bartunkova S., Wiegand S.J., Radziejewski C., Compton D.L., McClain J., Aldrich T.H., Papadopoulos N., Daly T.J., Davis S., Sato T.N., Yancopoulos G.D.Science 277:55-60(1997)Research Topic:Cardiovascular

Note: This product is for in vitro research use only