9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

ANGPT2 Human

Angiopoietin 2 Human Recombinant
CYK0030

Product Overview

Name	ANGPT2 Human
Description	
Angiopoietin 2 Human Recombinant	
Accession (Primary)	O15123
Synonyms	
Angiopoietin-2, Angiopoietin2, ANGPT2, ANG2, ANG-2, ANGPT-2.	
Introduction	
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.	
Source	
Chinese Hamster Ovary Cells (CHO).	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
ANGPT2 protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.	
Stability	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
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	

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IKAYCDMEAG GGGWTIIQRR EDGSVDFQRT WKEYKVGFGN PSGEYWLGNE FVSQLTNQQR YVLKIHLKDWEGNEAYSLYE HFYLSSEELN YRIHLKGLTG TAGKISSISQ PGNDFSTKDG DNDKCICKCS QMLTGGWWFD ACGPSNLNGM YYPQRQNTNKFNGIKWYYWK GSGYSLKATT MMIRPADF HH HHHH

Background

6. Therapeutic Implications of Ang-2 Given its critical role in angiogenesis and its involvement in various disease states, Ang-2 represents a promising target for therapeutic interventions. Strategies aimed at modulating Ang-2 signaling, such as the development of neutralizing antibodies or small molecule inhibitors, hold great potential for managing angiogenesis-related disorders and improving patient outcomes. 7. Conclusion and Future Perspectives Our understanding of Ang-2 and its multifaceted involvement in angiogenesis has advanced significantly. However, further research is required to elucidate the complex interplay between Ang-2 and other angiogenic factors, as well as to explore the potential of Ang-2-targeted therapies. Continued investigations will pave the way for the development of innovative treatment approaches for angiogenesis-related disorders, ultimately improving patient care.

Precautions

ANGPT2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O15123)

Background

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