



Recombinant Human Angiopoietin-like protein 3

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-402S
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	27329
Synonyms:	ANGPTL-3, ANG-5, ANGPT5

ANGPTL-3 (Angiopoietin like protein 3) is a member of the angiopoietin family of structurally related proteins, characterized by a coiled N-terminal domain and a C-terminal fibrinogen like domain. It is primarily expressed in the liver and can exert activities related to both angiogenesis and lipid metabolism. ANGPTL-3 inhibits lipoprotein lipase (LPL) and endothelial lipase (EL), which has the effect of increasing plasma levels of triglycerides and HDL associated cholesterol. The fibrinogen like portion of the ANGPTL-3 protein can bind alpha-5/beta-3 integrins leading to endothelial cell adhesion and migration. Recombinant human ANGPTL-3 is a glycoprotein that migrates by SDS-PAGE analysis at an apparent molecular weight of 62 kDa, and contains 452 amino acid residues including a C-terminal His tag.

Sequence

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SRIDQDNSFSDLSPEPKSRFAMLDDVKILANGLLQLGHGLKDFVHKTKGQI
NDIFQKLNIFDQSFYDLSLQTSEIKKEEKELRRRTYKLVKNEEVKNMSLEL
NSKLESLLLEEKILLQQKVKYLEEQLTNLIQNQPETPEHPVETS LKTFVEKQD
NSIKDLLQTVEDQYKQLNQHSQIKEIENQLRRTSIQEPTEISLSSKPRAPR
TTPFLQLNEIRNVKHDGIPAECTTIYNRGEHTSGMYAIRPSNSQVHVYCDV
ISGSPWTLIQHRIDGSQNFNETWENYKYGFGRLDGEFWLGLLEKIYSIVKQSN
YVLRIELEDWKNKHYYEYSFYLGNHETNYTLHLVAITGNVPNAIPENKDLV
FSTWDHKAKGHFNCPEGYSGGWVWHDECENNLNGKYNKPRAKSKPERRRGL
SWKSQNGRLYSIKSTKMLIHPTDSESEFEHHHHHHHH
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Database References

Protein RefSeq:	NP_055310.1
Uniprot ID:	Q9Y5C1
mRNA RefSeq:	NM_014495.3

Product Specifications

Expressed in	CHO cells
Purity	> 97% by SDS-PAGE & HPLC analyses
Tag	His-Tag
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	452
MW:	62 kDa

Biological Activity: Measured by its binding ability to recombinant $\alpha v \beta 3$ integrin in a functional ELISA.



AVOID REPEATED FREEZE AND THAW CYCLES!