Recombinant human Angiopoietin-like 7/ANGPTL7 protein

Catalog Number: ATGP4082

PRODUCT INFORMATION

Expression system
HEK293

Domain
27-346aa

UniProt No.
O43827

NCBI Accession No.
NP_066969.1

Alternative Names
Angiopoietin like 7, AngX, CDT6, Angiopoietin-related protein 7, ANGPTL7

PRODUCT SPECIFICATION

Molecular Weight
63.2kDa (553aa)

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)

Tag
hIgG-Tag

Application
SDS-PAGE

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-like 7, also known as Angiopoietin-related protein 7, is a member of angiopoietin-like (ANGPTL) family. Angiopoietin-like 7 have been shown to be involved in blood vessel formation or neovascularization in several models. When overexpressed in tumor cells it promotes collagen and proteoglycan deposition but inhibits tumor xenograft progression and tumor angiogenesis. It is also expressed in the corneal stroma,

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trabecular meshwork, and sclera and is elevated in glaucoma aqueous humor. Overexpression of ANGPTL7 increases collagen expression. Thus, it could have a pathogenic role in glaucoma, and may serve as a potential therapeutic target. Recombinant human Angiopoietin-like 7, fused to hIgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

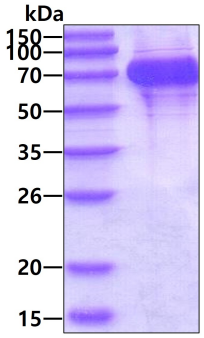
QKLSKHKTPA QPQLKAANCC EEVKELKAQV ANLSSLLSEL NKKQERDWVS VVMQVMELES NSKRMESRLT DAESKYSEMN NQIDIMQLQA AQTVTQTSAD AIYDCSSLYQ KNYRISGVYK LPPDDFLGSP ELEVFCDMET SGGGWTIIQR RKSGLVSFYR DWKQYKQGFG SIRGDFWLGN EHIHRLSRQP TRLRVEMEDW EGNLRYAEYS HFVLGNELNS YRLFLGNYTG NVGNDALQYH NNTAFSTKDK DNDNCLDKCA QLRKGGYWYN CCTDSNLNGV YYRLGEHNKH LDGITWYGWH GSTYSLKRVE MKIRPEDFKP <LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSDGSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTQKSLSLS PGK >

General References

Kuchtey, J., et al, (2008) Invest. Opthalmol. Visual Sci. 49:3438-3448.
Oike, Y., et al, (2009) Invest. Circ. J. 73:2192.

DATA

SDS-PAGE



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