Recombinant human CTRP5/C1qTNF5 protein

Catalog Number: ATGP3859

PRODUCT INFORMATION

Expression system
E.coli

Domain
16-243 aa

UniProt No.
Q9BXJ0

NCBI Accession No.
NP_001265360

Alternative Names
Complement C1q tumor necrosis factor-related protein 5, CTRP5, MFRP

PRODUCT SPECIFICATION

Molecular Weight
26.4 kDa (253aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by BCA assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH8.5) containing 30% glycerol, 0.2M NaCl

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-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
CTRP5, also known as Complement C1q tumor necrosis factor-related protein 5, encodes a short-chain collagen which is strongly expressed in sub-retinal pigment epithelium (sub-RPE), ciliary epithelium and adipose tissue. CTRP5 is increased in mtDNA-depleted myocytes and that it stimulates the phosphorylation of AMP activated protein kinase. CTRP5 plays an important role in the adhesion of the retinal pigment epithelium (RPE) to the

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Bruch Membrane, and mutations are thought to impair the adhesion, resulting in sub-RPE deposits. Recombinant human CTRP5, fused to His-tag at N-terminals, was expressed in E. coli and purified by conventional chromatography techniques.

Amino acid Sequence

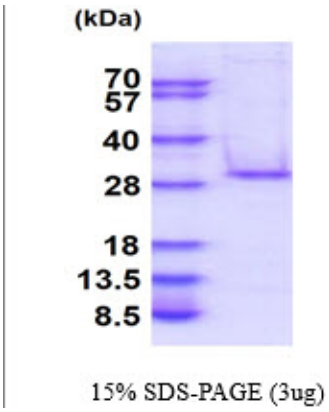
MGSSHHHHHH SSGLVPRGSH MGSHMSPPLD DNKIPSLCPG HPGLPGTPGH HGSQGLPGRD GRDGRDGAPG APGEKGEGGR PGLPGPRGDP GPRGEAGPAG PTGPAGECSV PPRSAFSAKR SESRVPPPSD APLPFDRVLV NEQGHYDAVT GKFTCQVPGV YYFAVHATVY RASLQFDLVK NGESIASFFQ FFGGWPKPAS LSGGAMVRLE PEDQVWVQVG VGDYIGIYAS IKTDSTFSGF LVYSDWHSSP VFA

General References

Park SY., et al. (2009) J Biol Chem. 284(41):27780-9.
Hayward C., et al. (2003) Hum Mol Genet. 12(20):2657-67.
Ayyagari R., et al. (2005) Invest Ophthalmol Vis Sci. 46(9):3363-71.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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