

# Recombinant human CTRP5/C1qTNF5 protein

Catalog Number: ATGP3859

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

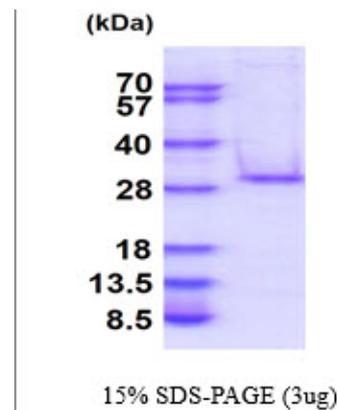
MGSSHHHHHHH SSGLVPRGSH MGSMSPPPLD DNKIPSLCPG HPGLPGLTPGH HGSQGLPGRD GRDGRDGAPG  
APGEKGEGR PGLPGPRGDP GPRGEAGPAG PTGPAGECSV PPSAFSAKR SESRVPPPSD APLPFDRVLV NEQGHYDAVT  
GKFTCQVPGV YYFAVHATVY RASLQFDLVK NGESIASFFQ FFGGWPKPAS LSGGAMVRLE PEDQVWVQVG VGDYIGIYAS  
IKTDSTFSGF LVYSDWHSSP VFA

## 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



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