

# Recombinant Human C1q And Tumor Necrosis Factor Related Protein 3, His-tagged

**Cat. No.** C1QTNF3-4240H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview** C1QTNF3 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 234 amino acids and having a molecular mass of 25.4 kDa. The protein contains an extra 10 aa His tag at N-terminus. The C1QTNF3 amino acid sequence is identical to UniProtKB/Swiss-Prot entry Q9BXJ4 amino acids 23–246. The C1QTNF3 is purified by proprietary chromatographic techniques.

**Species** Human

**Source** Human

**ProteinLength** 23-246 a.a.

**Description** C1QTNF3 also called Cartducin is a novel angiogenic factor in the formation of neointima following angioplasty. C1QTNF3 a paralog of Acrp30 (adiponectin). C1QTNF3 is a secretory protein produced by chondrogenic precursors & proliferating chondrocytes, and belongs to a novel C1q family of proteins. Cartducin promotes the growth of mesenchymal chondroprogenitor cells & chondrosarcoma-derived chondrocytic cells in vitro. Cartducin stimulates mesenchymal chondroprogenitor cell proliferation through extracellular signal-regulated kinase and phosphatidylinositol 3-kinase/Akt pathways. C1QTNF3 promotes proliferation & the migration of endothelial cells.

**Form** Human C1QTNF3 was filtered (0.4µm) and lyophilized in 0.5 mg/ml in 0.05M Acetate

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	buffer pH4.
<b>Purity</b>	The purity of C1QTNF3 is greater than 95% as determined by SDS PAGE.
<b>Solubility</b>	It is recommended to add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 <sup>2</sup> g/ml. In higher concentrations the solubility of the protein is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
<b>Amino acid sequence</b>	MKHHHHHHAS QDEYMESPQT GGLPPDCSKC CHGDYSFRGY QGPPGPPGPP GIPGNHGNGG NNGATGHEGA KGEKGDKGDG GPRGERGQHG PKGEKGYPGI PPELQIAFMA SLATHFSNQN SGIIFSSVET NIGNFFDVMT GRFGAPVSGV YFFTFSSMMKH EDVEEVYVYL MHNGNTVFSM YSYEMKGKSD TSSNHAVLKL AKGDEVWLRM GNGALHGDHQ RFSTFAGFLLFETK.
<b>Storage</b>	Store lyophilized C1QTNF3 at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted C1QTNF3 can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized C1QTNF3 remains stable until the expiry date when stored at -20°C.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	C1QTNF3 C1q and tumor necrosis factor related protein 3 [ Homo sapiens ]
<b>Official Symbol</b>	C1QTNF3
<b>Synonyms</b>	C1QTNF3; 2310005P21Rik; C1ATNF3; C1q and tumor necrosis factor related protein 3; cartonectin; collagenous repeat-containing sequence of 26-kDa; Complement C1q tumor necrosis factor-related protein 3; complement C1q tumor necrosis factor-related

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protein 3; complement-c1q tumor necrosis factor-related protein 3; CORCS; Cors; CORS; Cors-26; CORS26; CORS-26; CTRP3; FLJ37576; OTTHUMP00000115918; OTTHUMP00000219981; Secretory protein CORS26; secretory protein CORS26; UNQ753/PRO1484

**Gene ID** [114899](#)

**mRNA Refseq** [NM\\_030945](#)

**Protein Refseq** [NP\\_112207](#)

**MIM** [612045](#)

**UniProt ID** [Q9BXJ4](#)

**Chromosome Location** 5p13

**Pathway** Beta-oxidation of pristanoyl-CoA; Bile acid and bile salt metabolism; Metabolism of lipids and lipoproteins; Peroxisomal lipid metabolism; Synthesis of bile acids and bile salts; Synthesis of bile acids and bile salts via 24-hydroxycholesterol; Synthesis of bile acids and bile salts via 7alpha-hydroxycholesterol

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