

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 (0.4?m) and lyophilized in 0.5 mg/ml in 0.05M Acetate

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	buffer pH4.
Purity	The purity of C1QTNF3 is greater than 95% as determined by SDS PAGE.
Solubility	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?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.
Amino acid sequence	MKHHHHHHAS QDEYMESPQT GGLPPDCSKC CHGDYSFRGY QGPPGPPGPP GIPGNHGNGG NNGATGHEGA KGEKGDKGDL GPRGERGQHG PKGEKGYPGI PPELQIAFMA SLATHFSNQN SGIIFSSVET NIGNFFDVM T GRFGAPVSGV YFFTFSMMKH EDVEEVYVYL MHNGNTVFSM YSYEMKGKSD TSSNHAVLKL AKGDEVWLRM GNGALHGDHQ RFSTFAGFLLFETK.
Storage	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.

GENE INFORMATION

Gene Name	C1QTNF3 C1q and tumor necrosis factor related protein 3 [Homo sapiens]
Official Symbol	C1QTNF3
Synonyms	C1QTNF3; 2310005P21Rik; C1ATNF3; C1q and tumor necrosis factor related protein 3; cartnectin; 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