
Product Data Sheet

Product Name: C1QTNF5 Human
 Cat. No.: GP22933
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CTRP5; MFRP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMSPPLD DNKIPSLCPG HPGLPGTPGH HGSQGLPGRDGRDGRDGAPG APGEKGEGGR PGLPGPRGDP GPRGEAGPAG PTGPAGECSV PPSAFSAKRSESRVPPPSD APLPFDRVLV NEQGHYDAVT GKFTCQVPGV YYFAVHATVY RASLQFDLVKNGESIASFFQ FFGGWPKPAS LSGGAMVRLE PEDQVWVQVG VGDYIGIYAS IKTDSTFSGF LVYSDWHSSP VFA.		
Formulation	The C1QTNF5 protein solution (0.25 mg/ml) is formulated in 20mM Tris-HCl buffer (pH8.5) containing 30% glycerol and 0.2M NaCl.		

Introduction

Complement C1q Tumor Necrosis Factor-Related Protein 5 (C1QTNF5) encodes a short-chain collagen which is expressed mainly in sub-retinal pigment epithelium, ciliary epithelium and adipose tissue. C1QTNF5 is increased in mtDNA-depleted myocytes and stimulates the phosphorylation of AMP activated protein kinase. C1QTNF5 takes part in the adhesion of the retinal pigment epithelium (RPE) to the Bruch Membrane. Mutations in C1QTNF5 have been associated with late-onset retinal degeneration.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

C1QTNF5 Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 253 amino acids (16-243.a.a) and having a molecular mass of 26.4kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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C1QTNF5 Human is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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