9051 Mira Mesa Blvd, #910094
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CTHRC1 Human

Collagen Triple Helix Repeat Containing 1 Human Recombinant
RCP0584

Product Overview

Name	CTHRC1 Human
Description	
Collagen Triple Helix Repeat Containing 1 Human Recombinant	
Accession (Primary)	Q96CG8
Synonyms	
Collagen Triple Helix Repeat Containing 1, Protein NMTC1, CTHRC1.	
Introduction	
Collagen triple helix repeat-containing protein 1 (CTHRC1) functions as a negative regulator of collagen matrix deposition. CTHRC1 is a secreted 28kDa protein which is glycosylated and highly conserved from lower chordates to mammals. CTHRC1 is highly connected with calcified tissues and cartilaginous matrix, but not with endothelial cells. CTHRC1 is detected qualitatively in plasma of healthy human subjects. CTHRC1 plasma levels are also significantly elevated during pregnancy, in diabetes, in inflammatory and infectious conditions, in subjects with acute myeloid leukemia but not in subjects with solid cancers. The hormonal functions of CTHRC1 include regulation of lipid storage and cellular glycogen levels with potentially far-reaching implications for cell metabolism and physiology. CTHRC1 gene deletion leads to fatty liver (steatosis) formation in mice while others exhibited inactivation of the CTHRC1 gene also results in low bone mass.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
CTHRC1 protein solution (1mg/ml) containing 20mM Tris-HCl (pH 8.0) and 10% glycerol.	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH M SEIPKGKQK AQLRQREVVD LYNGMCLQGP AGVPGRDGSP GANGIPGTPG IPGRDGFKGE KGECLRESFE ESWTPNYKQC SWSSLNYGID LGKIAECTFT KMRSNSALRV LFSGSLRLKC RNACCQRWYF TFNGAECSGP LPIEAIIYLD QGSPEMNSTI NIHRTSSVEG LCEGIGAGLV DVAIWVGTCS DYPKGDASTG WNSVSRIIIE ELPK.

Precautions

CTHRC1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q96CG8)