
Product Data Sheet

Product Name: CTHRC1 Human
 Cat. No.: GP23271
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Collagen Triple Helix Repeat Containing 1; Protein NMTC1; CTHRC1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSEIPK GKQK AQLRQREVVD LYNGMCLQGP AGVPGRDGSP GANGIPGTPG IPGRDGFKGE KGECLRESFE ESWTPNYKQC SWSSLNYGID LGKIAECTFT KMRSNSALRV LFGSLRLKC RNACCQRWYF TFNGAECSGP LPIEAIYLD QGSPENSTI NIHRTSSVEG LCEGIGAGLV DVAIWVGTCS DYPKGDASTG WNSVSRIII ELPK.		
Formulation	CTHRC1 protein solution (1mg/ml) containing 20mM Tris-HCl (pH 8.0) and 10% glycerol.		

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.

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%

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CTHRC1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 234 amino acids (31-243 a.a) and having a molecular mass of 25.3kDa. CTHRC1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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