
Product Data Sheet

Product Name: CTHRC1 Human, HEK
 Cat. No.: GP23272
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Collagen Triple Helix Repeat Containing 1; Protein NMTC1; CTHRC1.		
Amino Acid Sequence	SEIPKGKQKA QLRQREVVDL YNGMCLQGPA GVPGRDGSPG ANGIPGTPGI PGRDGFKGEK GECLRESFEE SWTPNYKQCS WSSLNYGIDL GKIAECTFTK MRSNSALRVL FSGSLRLKCR NACCQRWYFT FNGAECGPL PIEAIIYLDQ GSPEMNSTIN IHRTSSVEGL CEGIGAGLVD VAIWVGTCSD YPKGDASTGW NSVSRIIEE LPK HHHHHH.		
Solubility	It is recommended to add 200 μ l deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. CTHRC1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	CTHRC1 was filtered (0.4 μ m) and lyophilized in phosphate buffered saline pH 7.5.		

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.

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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Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

CTHRC1 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Ser31-Lys243) containing a total of 219 amino acids, having a calculated molecular mass of 23.9kDa and fused to a 6 aa His tag at C-Terminus.

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