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CTHRC1 Human, HEK

Collagen Triple Helix Repeat Containing 1 Human Recombinant, HEK
RCP0585

Product Overview

Name	CTHRC1 Human, HEK

Description

Collagen Triple Helix Repeat Containing 1 Human Recombinant, HEK

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

HEK 293.

Physical Appearance

Filtered White lyophilized (freeze-dried) powder.

Formulation

CTHRC1 was filtered (0.4 μm) and lyophilized in phosphate buffered saline pH 7.5.

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

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Amino acid sequence

SEIPKGKQKA QLRQREVVDL YNGMCLQGPA GVPGRDGSPG ANGIPGTPGI PGRDGFKGEK GECLRESFEE SWTPNYKQCS WSSLNYGIDL GKIAECTFTK MRSNSALRVL FSGSLRLKCR NACCQRWYFT FNGAECSGPL PIEAIIYLDQ GSPEMNSTIN IHRTSSVEGL CEGIGAGLVD VAIWVGTCSD YPKGDASTGW NSVSRIIIEE LPK HHHHHH .

Solubility

It is recommended to add 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.

Precautions

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

Target Information: (Q96CG8)