
Product Data Sheet

Product Name: CTHRC1 Human, Sf9
 Cat. No.: GP26278
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Collagen triple helix repeat-containing protein 1 isoform 1, CTHRC1, Protein NMTC1.		
Amino Acid Sequence	ADPSEIPKGK QKAQLRQREV VDLYNGMCLQ GPAGVPGRDG SPGANGIPGT PGIPGRDGFK GEKGECLRES FEESWTPNYK QCSWSSLNYG IDLGKIAECT FTKMRSNSAL RVLFSGSLRL KCRNACCQRW YFTFNGAECG GPLPIEAIY LDQGSPEMNS TINIHRSSV EGLCEGIGAG LVDVAIWVGT CSDYPKG DAS TGWNSVSR II EELPKHHHH HH.		
Formulation	CTHRC1 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Collagen triple helix repeat-containing protein 1 or CTHRC1 acts as a negative regulator of collagen matrix deposition. The protein is secreted from a 28kDa protein which is glycosylated and very conserved from lower chordates to mammals. CTHRC1 is found 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. CTHRC1 is highly connected with calcified tissues and cartilaginous matrix, but not with endothelial cells.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC 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

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

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CTHRC1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 222 amino acids (31-243a.a.) and having a molecular mass of 24.1kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). CTHRC1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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