

Recombinant Human COMP protein, His & T7-tagged

Cat. No. COMP-5794H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COMP aa. (Ser123~His240 (Accession # P49747)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser123~His240
Description	The protein encoded by this gene is a noncollagenous extracellular matrix (ECM) protein. It consists of five identical glycoprotein subunits, each with EGF-like and calcium-binding (thrombospondin-like) domains. Oligomerization results from formation of a five-stranded coiled coil and disulfides. Binding to other ECM proteins such as collagen appears to depend on divalent cations. Contraction or expansion of a 5 aa aspartate repeat and other mutations can cause pseudoachondroplasia (PSACH) and multiple epiphyseal dysplasia (MED).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.5kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 7.2.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	COMP cartilage oligomeric matrix protein [Homo sapiens (human)]
Official Symbol	COMP
Synonyms	MED; EDM1; EPD1; TSP5; PSACH; THBS5; cartilage oligomeric matrix protein (pseudoachondroplasia, epiphyseal dysplasia 1, multiple); pseudoachondroplasia (epiphyseal dysplasia 1, multiple); thrombospondin-5; cartilage oligomeric matrix protein
Gene ID	1311
mRNA Refseq	NM_000095.2

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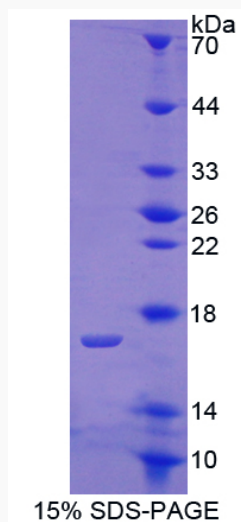
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Protein Refseq NP_000086.2

UniProt ID P49747

SDS-PAGE



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