

# Recombinant Full Length Human COMP Protein, GST-tagged

**Cat. No.** COMP-1947HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human COMP full-length ORF (BAC11031.1, 1 a.a. - 130 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	130 amino acids
<b>Description</b>	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). [provided by RefSeq, Jul 2016]
<b>Molecular Mass</b>	40.2 kDa
<b>AA Sequence</b>	MVPDTACVLLLTLAALGASGQGQSPLGSDLGPQMLRELQETNAALQDVRELLRQQV REITFLKNTVMECDACGMQQSVRTGLPSVRPLLHCAPGVPLRGLPAGVQRPHPPG RGAGFRQGQQAGLHGHQRV
<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)

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	Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	COMP cartilage oligomeric matrix protein [ Homo sapiens ]
<b>Official Symbol</b>	COMP
<b>Synonyms</b>	COMP; cartilage oligomeric matrix protein; cartilage oligomeric matrix protein (pseudoachondroplasia, epiphyseal dysplasia 1, multiple) , EDM1, EPD1, PSACH; MED; THBS5; thrombospondin 5; TSP5; thrombospondin-5; pseudoachondroplasia (epiphyseal dysplasia 1, multiple); cartilage oligomeric matrix protein(pseudoachondroplasia, epiphyseal dysplasia 1, multiple); cartilage oligomeric matrix protein (pseudoachondroplasia, epiphyseal dysplasia 1, multiple); EDM1; EPD1; PSACH; MGC131819; MGC149768
<b>Gene ID</b>	1311
<b>mRNA Refseq</b>	NM_000095
<b>Protein Refseq</b>	NP_000086
<b>MIM</b>	600310

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UniProt ID

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