

Recombinant Human COMP Protein, His-tagged

Cat. No. COMP-185H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human COMP protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	757
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	Lyophilized
Molecular Mass	82 kDa
AA Sequence	MVPDTACVLLLTLAALGASGQGQSPLGSDLGPQMLRELQETNAALQDVRELLRQQV REITFLKNTVMECDACGMQQSVRTGLPSVRPLLHCAPGFVACIQTESGARCG PCPAGFTGNGSHCTDVNECNAHPCFPRVRCINTSPGFRCEACPPGYSGPTHQGVG LAFKANKQVCTDINECETGQHNCVPNSVCINTRGSFQCGPCQPGFVGDQASGCQ RRAQRFCPDGSPSECHEHADCVLERDGSRSVCVAVGWAGNGILCGRDLDLGGFP

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DEKLRCPERQCRKDNCVTPNSGQEDVDRDGIGDACDPDADGGDVPNEKDNCPL
 VRNPDQRNTDEDKWGDACDNCRSQKNDDQKDTDQDGRGDACDDDDIDGDRIRNQ
 ADNCPRVPNSDQKDSGDGIGDACDNCQKSNPDQADVHDHDFVGDACDSQQDQD
 GDGHQDSRDNCPTVPNSAQEDSDHDGQGDACDDDDNDGVPDSRDNCRLVNP
 GQEDADR DGVGDVCQDDFDADKVVDKIDVCPENAEVTLTDFRAFQTVVLDPEGDA
 QIDPNWVVLNQGREIVQTMNSDPGLAVGYTAFNGVDFEGTFHVNTVTDYAGFIF
 GYQDSSSFYVVMWKQMEQTYWQANPFRVAEPIQLKAVKSSTGPGEQLRNALW
 HTGDTESQVRLWLDPRNVGWKDKKSYRWFLQHRPQVGYIRVRFYEGPELVADSN
 VVLDTTMRGGRLGVFCFSQENIIWANLRYRCNDTIPEDYETHQLRQA

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

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Gene Name	COMP cartilage oligomeric matrix protein [Homo sapiens (human)]
Official Symbol	COMP
Synonyms	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;
Gene ID	1311
mRNA Refseq	NM_000095
Protein Refseq	NP_000086
MIM	600310
UniProt ID	P49747

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