

Recombinant Human COMP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. COMP-566H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COMP MS Standard C13 and N15-labeled recombinant protein (NP_000086) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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).
Molecular Mass	82.9 kDa
AA Sequence	MVPDTACVLLLTALALGASGQGQSPLGSDLGPQMLRELQETNAALQDVRELLRQQV REITFLKNTVMECDACGMQQSVRTGLPSVRPLLHCAPGFCFPGVACIQTESGARCG PCPAGFTGNGSHCTDVNECNAHPCFPRVRCINTSPGFRCEACPPGYSGPTHQGVG LAFKANKQVCTDINECETGQHNCVPNSVCINTRGSFQCGPCQPGFVGDQASGCQ RRAQRFCDGSPSECEHADCVLERDGSRSVCVAGWAGNGILCGRDLDLGGFP DEKLRCPERQCRKDNCTVPNSGQEDVDRDGIGDACPDADGDGVPNEKDNCPL

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VRNPDQRNTDEDKWGDACDNCRSQKNDDQKDTDQDGRGDACDDDDIDGDRIRNQ
 ADNCPRVPNSDQKSDGSDGIGDADCNCPQKSNPDQADVDHDFVGDACDSDQDQD
 GDGHQDSRDNCPTVPNSAQEDSDHDGQGDACDDDDNDGVPSRDNCRLVPNP
 GQEDADDRDGVGDVCQDDFDADKVVDKIDVCPENAEVTLTDFRAFQTVVLDPEGDA
 QIDPNWVVLNQGREIVQTMNSDPGLAVGYTAFNGVDFEGTFHVNTVTDDDYAGFIF
 GYQDSSSFYVVMWKQMEQTYWQANPFRAVAEPIQLKAVKSSTGPGEQLRNALW
 HTGDTESQVRLWLDKPRNVGWKDKKSYRWFLQHRPQVGYIRVRFYEGPELVADSN
 VVLDTTMRGGRLGVFCFSQENIIWANLRYRCNDTIPEDYETHQLRQASGPTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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protein(pseudoachondroplasia, epiphyseal dysplasia 1, multiple); cartilage oligomeric matrix protein (pseudoachondroplasia, epiphyseal dysplasia 1, multiple); EDM1; EPD1; PSACH; MGC131819; MGC149768;

Gene ID [1311](#)

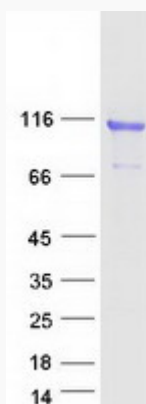
mRNA Refseq [NM_000095](#)

Protein Refseq [NP_000086](#)

MIM [600310](#)

UniProt ID [P49747](#)

SDS-PAGE



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