

Product datasheet for **TP311080L**

COMP (NM_000095) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human cartilage oligomeric matrix protein (COMP), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC211080 protein sequence

Clone or AA Red=Cloning site Green=Tags(s)

Sequence:

MVPDTACVLLLLTLAALGASGQGQSPLGSDLGPQMLRELQETNAALQDVRELLRQQVREITFLKNTVMECD
ACGMQQSVRTGLPSVRPLLHCAPGFCFPGVACIQTESGARGPCPAGFTGNGSHCTDVNECNAHPCFPRV
RCINTSPGFRCEACPPGYSGPTHQGVGLAFKANKQVCTDINECETGQHNCVPSVNCINTRGSFQCGPCQ
PGFVGDQASGCQRRARFCPDGSPSECHEHADCVLERDGSRSVCVAVGWAGNGILCGRDSDLGFPDEKL
RCPERQCRKDNVCVTPNSGQEDVDRDGIGDADCPDADGDGVPNEKDNCLVRNPDQRNTDEDKWDACDN
CRSQKNDDQKDTDQDGRGDACDDDDIDGDRIRNQADNCPRVNSDQKSDSDGIGDADCNCPQKSNPDQAD
VDHDFVGDACSDQDQDGDGHQDSRDNCPTVPNSAQEDSDHDGQGDACDDDDNDGVPDSRDNCRLVNP
GQEDADRDGVDVCQDDFDADKVVDKIDVCPENAEVTLDFRAFQTVVLDPEGDAQIDPNWVVLNQGREI
VQTMNSDPGLAVGYTAFNGVDFEGTFHVNTVTDDDYAGFIFGYQDSSSFYVMWKQMEQTYWQANPFRV
AEPGIQLKAVKSSTGPGEQLRNALWHTGDTESQVRLWWDKPRNVGWKDKKSYRWFLQHRPQVGYIRVRFY
EGPELVADSNVLDTTMRGGRLGVFCFSQENIIWANLRYRCNDTIPEDYETHQLRQA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 80.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000086](#)

Locus ID: 1311

UniProt ID: [P49747](#)

RefSeq Size: 2471

Cytogenetics: 19p13.11

RefSeq ORF: 2271

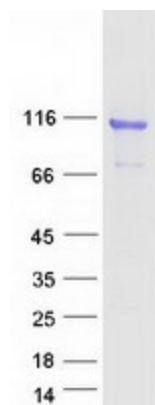
Synonyms: CTS2; EDM1; EPD1; MED; PSACH; THBS5; TSP5

Summary: 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]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: ECM-receptor interaction, Focal adhesion, TGF-beta signaling pathway

Product images:



Coomassie blue staining of purified COMP protein (Cat# [TP311080]). The protein was produced from HEK293T cells transfected with COMP cDNA clone (Cat# [RC211080]) using MegaTran 2.0 (Cat# [TT210002]).