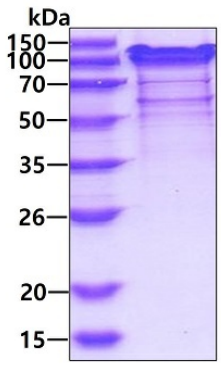
HuPro®

COMP (Human) Recombinant Protein

Catalog # P7867 Size 500 ug

Applications



SDS-PAGE analysis of COMP (Human) Recombinant Protein.

Specification

Product Description	Human COMP (P49747, 21 a.a. - 757 a.a.) partial recombinant protein with His tag expressed in HEK293 cells.
Sequence	QGQSPLGSDLGPQMLRELQETNAALQDVRELLRQQVREITFLKNTVMECDACGMQQSVRTGLP SVRPLLHCAPGFCFPGVACIQTESGARCGPCPAGFTGNGSHCTDVNECNAHPCFPRVRCINTSP GFRCEACPPGYSGPTHQGVGLAFAKANKQVCTDINECETGQHNCVPNSVCINTRGSFQCGPCQ PGFVGDQASGCQRRAQRFCPDGSPSECHEHADCVLERDGSRSCVCAVGWAGNGILCGRDTD LDGFPDEKLRCPERQCRKDNCVTVPNSGQEDVDRDGIGDACDPDADGDGVPNEKDNCPLVRN PDQRNTDEDKWGDACDNCRSQKNDDQKDTDQDGRGDACDDDIDGDRIRNQADNCPRVPNSD QKDSDGDGIGDACDNCPQKSNPDQADVDHDFVGDACDSDQDQDGDGHQDSRDNCPTVPNS AQEDSDHDGQGDACDDDDDNDGVPDSRDNCRLVPNPGQEDADRDGVGDVCQDDFDADKVV DKIDVCPENAEVTLTDFRAFQTVVLDPEGDAQIDPNWVVLNQGREIVQTMNSDPGLAVGYTAFNG VDFEGTFHVNTVTDDDYAGFIFGYQDSSSFYVVMWKQMEQTYWQANPFRAVAEPGIQLKAVKSS TGPGEQLRNALWHTGDTESQVRLLWKDPRNVGWKDKKSYRWFLQHRPQVGYIRVRFYEGPELV ADSNVVLDTTMRGGRLGVFCFSQENIIWANLRYRCNDTIPEDYETHQLRQA
Host	Human
Theoretical MW (kDa)	82.4
Form	Liquid

Preparation Method	Mammalian cell (HEK 293) expression system
Purity	> 85% as analyzed by SDS-PAGE.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of COMP (Human) Recombinant Protein.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol)
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — COMP

Entrez GeneID	1311
Protein Accession#	P49747
Gene Name	COMP
Gene Alias	EDM1, EPD1, MED, MGC131819, MGC149768, PSACH, THBS5
Gene Description	cartilage oligomeric matrix protein
Omim ID	132400 177170 600310
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a noncollagenous extracellular matrix (ECM) protein. It consis ts of five identical glycoprotein subunits, each with EGF-like and calcium-binding (thrombospondi n-like) domains. Oligomerization results from formation of a five-stranded coiled coil and disulfide s. Binding to other ECM proteins such as collagen appears to depend on divalent cations. Mutati ons can cause the osteochondrodysplasias pseudochondroplasia (PSACH) and multiple epiphys eal dysplasia (MED). [provided by RefSeq
Other Designations	cartilage oligomeric matrix protein (pseudoachondroplasia, epiphyseal dysplasia 1, multiple)|carti lage oligomeric matrix protein(pseudoachondroplasia, epiphyseal dysplasia 1, multiple)|pseudoa chondroplasia (epiphyseal dysplasia 1, multiple)|thrombospondin

Pathway

- ECM-receptor interaction
- Focal adhesion
- TGF-beta signaling pathway

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Neoplasms
- Osteoarthritis
- Osteochondrodysplasias
- Osteoporosis