

32-4207: Recombinant Human Matrix Gla Protein

Alternative Name : Matrix Gla protein, Cell growth-inhibiting gene 36 protein, MGLAP, NTI.

Description

Source : E.coli. MGP Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 98 amino acids (20-96) and having a molecular mass of 11.8 kDa. The MGP is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. MGP is vital for the regulation of calcification in the extracellular matrix, particularly in cartilage and arteries. The K-dependent vitamin MGP has five to six residues of Gla, a Ca²⁺ binding amino acid crucial for vitamin K-dependent gamma carboxylase for its formation. MGP is formed by COOH-terminal processing by carboxypeptidase B-like enzymatic activity and localized in the human bone.

Product Info

Amount :	20 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The MGP solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SGLVPRGSH MYESHESMES YELNPFINRR NANTFISPQQ RWRAKVQERI RERSKPVHEL NREACDDYRL CERYAMVYGY NAAYNRYF