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MGP Human

Catalog #:PRPS-929

For research use only.

Description: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.

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

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MYESHESMES YELNPFINRR NANTFISPQQ RWRAKVQERI RERSKPVHEL NREACDDYRL CERYAMVYGY NAAYNRYF

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
The MGP solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

Stability:
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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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.

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