
Product Data Sheet

Product Name: MGP Human
 Cat. No.: GP23922
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Matrix Gla protein; Cell growth-inhibiting gene 36 protein; MGLAP; NTI.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MYESHESMES YELNPFINRR NANTFISPQQ RWRAKVQERI RERSKPVHEL NREACDDYRL CERYAMVYGY NAAYNRYF		
Formulation	The MGP solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

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.

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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