



## Matrix Gla Protein (MGP) Human, E. coli Recombinant Protein

### Product Data Sheet

Cat. No.: A1922020                      A19221MG  
Size:            20  $\mu$ g                      1 mg

#### Description:

Matrix Gla Protein (MGP) Human recombinantly produced in E. coli is a single, non-glycosylated polypeptide chain containing 98 amino acids (20-96) and has 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.

#### Summary:

Matrix Gla protein (MGP) is member of a family of vitamin-K2 dependent, Gla-containing proteins. MGP has a high affinity binding to calcium ions, similar to other Gla-containing proteins. The protein acts as an inhibitor of vascular mineralization and plays a role in bone organization. MGP is vital for the regulation of calcification in the extracellular matrix, particularly in cartilage and arteries.

#### Amino Acid Sequence:

MGSSHHHHH SGLVPRGSH MYESHESMES YELNPFINRR NANTFISPQQ RWRAKVQERI RERSKPVHEL  
NREACDDYRL CERYAMVYGY NAAYNRYF

#### Purity:

Greater than 90%

#### Physical Appearance:

Sterile Filtered colorless solution.

#### Formulation:

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

update.: 072021

#### Ilex Life Sciences LLC

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**Stability:**

Shipped on regular ice packs. Upon receipt, store the product at the temperature recommended below.

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:**

Ilex Life Sciences products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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