

MGP, 20-96aa, Human, E.coli

Cat.NO.: TP02968

3th Edition

Synonyms:Matrix Gla protein isoform 2 precursor, GIG36, MGLAP, NTI.

Description:MGP, also known as Matrix Gla protein, is a protein involved in regulating calcification in the extracellular matrix, in particular in cartilage and arteries. MGP is a vitamin K-dependent protein, and contains five to six residues of Gla, a Ca²⁺ binding amino acid requiring vitamin K-dependent gamma carboxylase for its formation. It is found in human bone extracts, likely formed by COOH-terminal processing by carboxypeptidase Blike enzymatic activity.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

Molecular Weight:11.8 kDa (98aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMYESHESMESYELNPFINRRNANTFISPQQRWRAKVQERIRERSKPVHELNREA
CDDYRLCERYAMVYGYNAAYNRYF

Purity:> 95% by HPLC

Concentration:1.0 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.