

MGP recombinant protein

MGP, 20-96aa, Human, His tag, E Coli (Denatured)

CATALOG # AAA48785	HOST E Coli	APPLICATIONS SDS-Page
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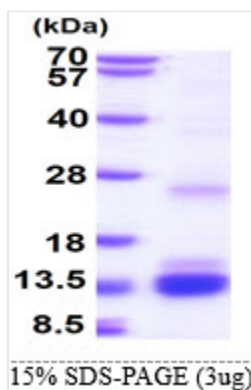
PRODUCT SYNONYMS

MGP; 20-96aa; Human; His tag; E Coli (Denatured); Matrix Gla protein isoform 2 precursor; GIG36; MGLAP; NTI; MGP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1.0 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MYESHESMES YELNPFINRR NANTFISPQQ RWRKVQERI RERSKPVHEL NREACDDYRL CERYAMVGY NAAYNRYF
Sequence Length	103
Applicable Applications for MGP recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MGP recombinant protein	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 B-like enzymatic activity. Recombinant human MGP protein, fused to His-tag at N-terminus, was expressed in E Coli and denatured using detergent during a conventional chromatography purification process.
Product Categories/Family for MGP recombinant protein	Cytoskeleton
References	Cancela L.et al. (1990) J Biol Chem. 265: 15040-15048.; Hale J.E.et al. (1991) J. Biol. Chem. 266: 21145-21149.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49574514
NCBI GeneID	4256
NCBI Accession #	NP_000891
NCBI GenBank Nucleotide #	NM_000900.4
UniProt Accession #	P08493; Q2TU41; Q567P9; Q6ICN5; A0M8W5; B2R519; J3KMX7
Molecular Weight	11.8 kDa (98aa)
NCBI Official Full Name	matrix Gla protein isoform 2 preproprotein
NCBI Official Synonym Full Names	matrix Gla protein
NCBI Official Symbol	MGP
NCBI Official Synonym Symbols	NTI; GIG36; MGLAP
NCBI Protein Information	matrix Gla protein
UniProt Protein Name	Matrix Gla protein
UniProt Gene Name	MGP
UniProt Synonym Gene Names	MGLAP; MGP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.