

Product datasheet for **AR39140PU-N**

Matrix Gla (20-96, His-tag) Human Protein

Product data:

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|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type: | Recombinant Proteins |
| Description: | Matrix Gla Protein (20-96, His-tag) human recombinant protein, 0.1 mg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | <u>MGSSHHHHHH SSGLVPRGSH</u> MYESHESMES YELNPFINRR NANTFISPQQ RWRRAKVQERI RERSKPVHEL NREACDDYRL CERYAMVYGY NAAYNRYF |
| Tag: | His-tag |
| Predicted MW: | 11.8 kDa |
| Concentration: | lot specific |
| Purity: | >90% |
| Buffer: | Presentation State: This purified protein is available in a denatured form, making it less suitable for functional studies. Denatured proteins are better suited for applications like Western Blot (WB) or imaging assays. State: Liquid purified peptide Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol |
| Preparation: | Liquid purified peptide |
| Protein Description: | Recombinant human MGP, fused to His-tag at N-terminus, was expressed in E.coli and denatured using detergent during a conventional chromatography purification process. |
| Storage: | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | <u>NP_000891</u> |
| Locus ID: | 4256 |
| UniProt ID: | <u>P08493</u> , <u>A0A024RAX0</u> |
| Cytogenetics: | 12p12.3 |
| Synonyms: | MGP, MGLAP, GIG36 |



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Summary:

This gene encodes a member of the osteocalcin/matrix Gla family of proteins. The encoded vitamin K-dependent protein is secreted by chondrocytes and vascular smooth muscle cells, and functions as a physiological inhibitor of ectopic tissue calcification. Carboxylation status of the encoded protein is associated with calcification of the vasculature in human patients with cardiovascular disease and calcification of the synovial membranes in osteoarthritis patients. Mutations in this gene cause Keutel syndrome in human patients, which is characterized by abnormal cartilage calcification, peripheral pulmonary stenosis and facial hypoplasia. [provided by RefSeq, Sep 2016]

Protein Families:

Secreted Protein

Product images: