

Recombinant Human DMP1 Protein, GST-tagged

Cat. No. DMP1-2706H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DMP1 partial ORF (NP_004398.1, 221 a.a. - 330 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	Dentin matrix acidic phosphoprotein is an extracellular matrix protein and a member of the small integrin binding ligand N-linked glycoprotein family. This protein, which is critical for proper mineralization of bone and dentin, is present in diverse cells of bone and tooth tissues. The protein contains a large number of acidic domains, multiple phosphorylation sites, a functional arg-gly-asg cell attachment sequence, and a DNA binding domain. In undifferentiated osteoblasts it is primarily a nuclear protein that regulates the expression of osteoblast-specific genes. During osteoblast maturation the protein becomes phosphorylated and is exported to the extracellular matrix, where it orchestrates mineralized matrix formation. Mutations in the gene are known to cause autosomal recessive hypophosphatemia, a disease that manifests as rickets and osteomalacia. The gene structure is conserved in mammals. Two transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]
Molecular Mass	37.84 kDa
AA Sequence	ESIRSERGNSRMNSAGMKSKEGENSEQANTQDSGGSQLLEHPSRKIFRKSRISEE

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DDRSELDNNTMEEVKSDSTENSNSRDTGLSQPRRDSKGDSQEDSKENLSQEEES

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[DMP1 dentin matrix acidic phosphoprotein 1 \[Homo sapiens \]](#)

Official Symbol

[DMP1](#)

Synonyms

DMP1; dentin matrix acidic phosphoprotein 1; dentin matrix acidic phosphoprotein;
dentin matrix protein 1; ARHP; ARHR; DMP-1;

Gene ID

[1758](#)

mRNA Refseq

[NM_001079911](#)

Protein Refseq

[NP_001073380](#)

MIM

[600980](#)

UniProt ID

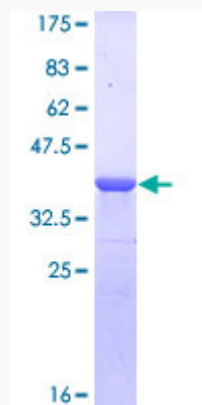
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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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