

Recombinant Human DMP1 Protein, MYC/DDK-tagged

Cat. No. DMP1-2212H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human DMP1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293
Species	Human
Source	HEK293
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]
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	52.3 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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Concentration	>50 ug/mL as determined by microplate BCA method
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GENE INFORMATION

Gene Name	DMP1 dentin matrix acidic phosphoprotein 1 [Homo sapiens]
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Official Symbol	DMP1
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Synonyms	ARHP; ARHR; DMP-1
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Gene ID	1758
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mRNA Refseq	NM_001079911
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Protein Refseq	NP_001073380
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MIM	600980
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UniProt ID	Q13316
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