

Recombinant Human DMP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DMP1-6727H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DMP1 MS Standard C13 and N15-labeled recombinant protein (NP_001073380) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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-asp 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.
Molecular Mass	54.13 kDa
AA Sequence	MKISILLMFLWGLSCALPVTRYQNNESDSEEWKGHLAQAPTPLANEDPSDCTQS

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EEGLGSDDHQYIYRLAGGFSRSTGKGGDDKDDDEDDSGDDTFGDDDSGPGPKDR
 QEGGNSRLGSDSDSDDTIQASEESAPQGQDSAQDTTSESRELDNEDRVDSKPEGG
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 GMKSKESGENSEQANTQDSGGSQLEHPSRKIFRKSRISEEDDRSELDDNNTMEEV
 KSDSTENSNSRDTGLSQPRRDSKGDSQEDSKENLSQEESQNVDGPSSSESSQEANL
 SSQENSSESQEEVSESRGDNPDPTTSYVEDQEDSDSSEEDSSHTLSHKSSESRE
 EQADSESSESLNFSEESPESPEDENSSSQEGLQSHSSSAESQSEESHSEEDSDS
 QDSSRSKEDSNSTESKSSSEEDGQLKNIEIESRKLTVDAYHNKPIGDQDDNDCQDG
 YTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DMP1 dentin matrix acidic phosphoprotein 1 [Homo sapiens (human)]

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

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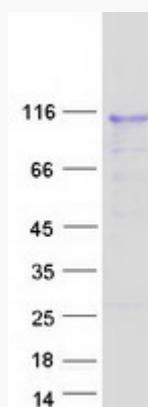
mRNA Refseq [NM_001079911](#)

Protein Refseq [NP_001073380](#)

MIM [600980](#)

UniProt ID [Q13316](#)

SDS-PAGE



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