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Datasheet for ABIN1691401

**DMP1 Protein (AA 17-513) (His tag)**

## Overview

Quantity:	50 µg
Target:	DMP1
Protein Characteristics:	AA 17-513
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DMP1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Dentin Matrix Acidic Phosphoprotein 1/DMP-1 (C-6His)
Sequence:	LPVTRYQNNE SEDSEEWKGH LAQAPTPPLE SSESSEGSKV SSEEQANEDP SDSTQSEEG GSDDHQYIYR LAGGFSRSTG KGGDDKDDDE DDSGDDTFGD DDSGPGPKDR QEGGNSRLGS DESDDDTIQA SEESAPQQQD SAQDTTSESR ELDNEDRVDS KPEGGDSTQE SESEHWWVG GSDGESSHGD GSELDDDEGMQ SDDPESIRSE RGNSRMNSAG MKSKESGENS EQANTQDSGG SQLLEHPSRK IFRKSRISEE DDRSELDDNN TMEEVKSDST ENSNSRDTGL SQPRRDSKGD SQEDSKENLS QEESQNVDP SSESQEQANL SSQENSSESQ EEVSESRGD NPDPTTSYVE DQEDSDSSEE DSSHTLSHSK SESREEQADS ESSESLNFSE ESPESPEDEN SSSQEGLQSH SSSAESQSEE SHSEEDSDS QDSSRSKEDS NSTESKSSSE EDGQLKNIEI ESRKLTVDAY HNKPIGDQDD NDCQDGYVDH HHHHH
Characteristics:	Recombinant Human Dentin Matrix Acidic Phosphoprotein 1/DMP-1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Lys17-Tyr513) of Human DMP1 fused with a 6His tag at the C-terminus.

## Product Details

Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	DMP1
Alternative Name:	Dentin Matrix Acidic Phosphoprotein 1 ( <a href="#">DMP1 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>Dentin Matrix Acidic Phosphoprotein 1 (DMP-1) is an extracellular matrix protein and a member of the small integrin binding ligand N-linked glycoprotein family. DMP-1 is expressed in teeth particularly in odontoblast, ameloblast, and cementoblast. DMP-1 is critical for proper mineralization of bone and dentin. DMP-1 may have a dual function during osteoblast differentiation. In the nucleus of undifferentiated osteoblasts, the unphosphorylated form of DMP-1 acts as a transcriptional component for activation of osteoblast-specific genes like osteocalcin. During the osteoblast to osteocyte transition phase, DMP-1 is phosphorylated and exported into the extracellular matrix, where it regulates nucleation of hydroxyapatite. DMP-1 mutations have also been shown to cause rickets hypophosphatemic autosomal recessive type 1 (ARHR1).</p> <p>Alternative Names: Dentin Matrix Acidic Phosphoprotein 1, DMP-1, Dentin Matrix Protein 1, DMP1</p>
Molecular Weight:	55 kDa
UniProt:	<a href="#">Q13316</a>
Pathways:	<a href="#">p53 Signaling</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O.

## Handling

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Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.  
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.  
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months