

Recombinant Human DMP1 Protein (17-513 aa), His-tagged

Cat. No. DMP1-2398H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DMP1 Protein (17-513 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
ProteinLength	17-513 aa
Description	May have a dual function during osteoblast differentiation. In the nucleus of undifferentiated osteoblasts, unphosphorylated form acts as a transcriptional component for activation of osteoblast-specific genes like osteocalcin. During the osteoblast to osteocyte transition phase it is phosphorylated and exported into the extracellular matrix, where it regulates nucleation of hydroxyapatite.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	56.0 kDa
AA Sequence	LPVTRYQNNESDSEEWKGHLAQAPTPPLESSESSEGSKVSSEEQANEDPSDSTQ SEEGLGSDDHQYIYRLAGGFSRSTGKGGDDKDDDEDDSGDDTFGDDDSGPGPKD RQEGGNSRLGSDSDSDDTIQASEESAPQGQDSAQDTSSESRELDNEDRVDSKPEG GDSTQESESEEHWVGGSDDGESSHGDGSELDDDEGMQSDDPESIRSERGNRMN SAGMKSKESEGENSEQANTQDSGGSQLEHPSRKIFRKSRISEEDDRSELDDNNTME

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EVKSDSTENSNSRDTGLSQPRRDSKGDSQEDSKENLSQEESQNVDGPSSSESSQEA
 NLSSQENSSSESQEEVSESRGDNPDPTTSYVEDQEDSDSSEEDSSHTLSHKSSES
 REEQADSESSESLENFSEESPEPEDENSSSQEGLQSHSSSAESQSEESHSEEDDS
 DSQDSSRSKEDSNSTESKSSSEEDGQLKNIEIESRKLTVDAYHNKPIGDQDDNDCQ
 DGY

Purity > 85% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

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

Official Symbol [DMP1](#)

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

Gene ID [1758](#)

mRNA Refseq [NM_001079911](#)

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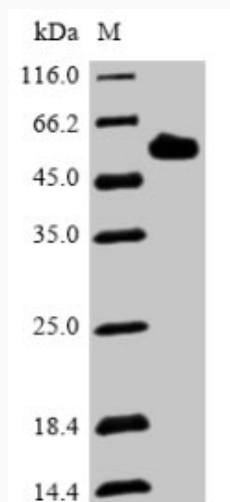
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Protein Refseq NP_001073380

MIM 600980

UniProt ID Q13316



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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