

Active Recombinant Mouse Dentin Matrix Protein 1, His-tagged

Cat. No. Dmp1-407M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinantmouse Dmp1 protein was expressed in Murine myeloma cell line, NS0-derived, with a C-terminal6-His tag.Leu17-Tyr503.
Species	Mouse
Source	Mammalian Cells
ProteinLength	17-503 a.a.
Description	Dmp1 is a member ofthe SIBLING family of proteins that includes bone sialoprotein, dentinsialophosphoprotein, MEPE, and osteopontin. These are highly phosphorylated integrinbindingproteins that are rich in acidic amino acids.
Form	Lyophilized from a0.2 µm filtered solution in PBS.
N-terminal Sequence	Leu17
Molecular Weight	52.9 kDa
Activity	Measured by itsbinding ability in a functional ELISA. Immobilized rhIntegrin αVβ3 at 5 µg/mLcan bind rmDMP-1 with an apparent KD < 25 nM.
Endotoxin Level	<1.0 EU per 1 µgof the protein by the LAL method.
Purity	>85%,by SDS-PAGE under reducing conditions and visualized by silver stain.

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Reconstitution	Reconstitute at 100µg/mL in sterile PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
GENE INFORMATION	
Gene Name	Dmp1 dentin matrix protein 1 [Mus musculus]
Official Symbol	Dmp1
Synonyms	Dmp1; dentinmatrix protein 1; PP; Dmp; AV020965; dentinmatrix acidic phosphoprotein 1; AG1; DMP-1; serine rich acidic phosphoprotein
Gene ID	13406
mRNA Refseq	NM_016779
Protein Refseq	NP_058059
UniProt ID	O5518
Chromosome Location	5
Function	extracellular matrix binding

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