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Product datasheet for PH322208

DMP1 (NM_001079911) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DMP1 MS Standard C13 and N15-labeled recombinant protein (NP_001073380)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222208
Predicted MW:	54.13 kDa
Protein Sequence:	>RC222208 representing NM_001079911 Red=Cloning site Green=Tags(s) MKISILLMFLWGLSCALPVTRYQNNESEDSEEWKGHLAQAPTPPLANEDPSDCTQSEEGLGSDDHQYIYR LAGGFSRSTGKGGDDKDDDEDDSGDDTFGDDDSGPGPKDRQEGGNSRLGSDEDSDDTIQASEESAPQGQD SAQDTTSESRELDNEDRVDSKPEGGDSTQESESEEHWVGGGSDGESSHGDGSELDDEGMQSDDPESIRSE RGNSRMNSAGMKSKESGENSEQANTQDSGGSQLLEHPSRKIFRKSRISEEDDRSELDDNNTMEEVKSDST ENSNSRDTGLSQPRRDSKGDSQEDSKENLSQEESQNVDGPSSESSQEANLSSQENSSESQEEVVSESRGD NPDPTTSYVEDQEDSDSSEEDSSHTLSHSKSESREEQADSESSESLNFSEESPESPEDENSSSQEGLQSH SSSAESQSEESHSEEDDSDSQDSSRSKEDSNSTESKSSSEEDGQLKNIEIESRKLTVDAYHNKPIGDQDD NDCQDGY TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001073380
RefSeq Size:	2631
RefSeq ORF:	1491

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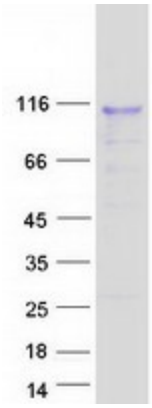
Synonyms:	ARHP; ARHR; DMP-1
Locus ID:	1758
UniProt ID:	Q13316, Q13316-2
Cytogenetics:	4q22.1
Summary:	Dentin matrix acidic phosphoprotein is an extracellular matrix protein and a member of the small integrin binding ligand N-linked glycoprotein family. This protein, which is critical for proper mineralization 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. [provided by RefSeq, Jul 2008]
Protein Families:	Secreted Protein

Product images:



Coomassie blue staining of purified DMP1 protein (Cat# [TP322208]). The protein was produced from HEK293T cells transfected with DMP1 cDNA clone (Cat# [RC222208]) using MegaTran 2.0 (Cat# [TT210002]).