Native Human BGLAP protein

Cat. No. BGLAP-60H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human BGLAP was purified from Human blood/plasma.
Species	Human
Source	Mouse Plasma
Description	This gene encodes a highly abundant bone protein secreted by osteoblasts that regulates bone remodeling and energy metabolism. The encoded protein contains a Gla (gamma carboxyglutamate) domain, which functions in binding to calcium and hydroxyapatite, the mineral component of bone. Serum osteocalcin levels may be negatively correlated with metabolic syndrome. Read-through transcription exists between this gene and the neighboring upstream gene, PMF1 (polyamine-modulated factor 1), but the encoded protein only shows sequence identity with the upstream gene product.
Form	20 mM Tris, 150 mM NaCl, pH 7.4
Molecular Mass	5,800
Purity	>95% by SDS-PAGE
Characteristic	Single chain, one intrachain disulfide bond, Cys 23-29. Three gla residues, 17, 21, 24. Isoelectric Point: 4.0-4.5.
Notes	Although the starting material was tested prior to initiation of the manufacturing

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	process, and was found negative or nonreactive for anti-HIV-1/2, HIV-1 antigen(s), HBsAg, STS, antiHCV, anti-HBcore and anti-HTLV I & II, extreme caution should be used when handling this material as there is a margin of error in all tests.
Storage	Store product at or below –80 centigrade.
Concentration	0.68 mg/ml

GENE INFORMATION

Gene Name	BGLAP bone gamma-carboxyglutamate (gla) protein [Homo sapiens]
Official Symbol	BGLAP
Synonyms	BGLAP; bone gamma-carboxyglutamate (gla) protein; osteocalcin; bone Gla protein; gamma-carboxyglutamic acid-containing protein; bone gamma-carboxyglutamate (gla) protein (osteocalcin); OC; BGP;
Gene ID	632
mRNA Refseq	NM_199173
Protein Refseq	NP_954642
MIM	112260
UniProt ID	P02818
Chromosome Location	1q25-q31
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific

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	biosystem; DNA Replication, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem; M Phase, organism-specific biosystem; Mitotic M-M/G1 phases, organism-specific biosystem;
Function	calcium ion binding; hydroxyapatite binding; structural constituent of bone; structural molecule activity;

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