Native Bovine BGLAP

Cat. No. BGLAP-8519B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Bovine BGLAP is purified from Osteocalcin is prepared from bovine bone generally as described by Price et al. This involves demineralization in EDTA, size exclusion and ion exchange chromatography.
Species	Bovine
Source	Bovine
Description	Osteocalcin, also known as Bone-Gla-Protein (BGP), is a single chain (Mr=5800) vitamin K dependent protein produced by osteoblasts and found in high concentrations in bone. Post-translational modification by a vitamin K dependent carboxylase produces three g-carboxyglutamic acid residues at positions 17, 21 and 24. The mature protein contains 49 amino acids and a single intrachain disulfide bond joining Cys23 to Cys29. The secondary structure is highly calcium dependent and contains 14% α-helix, 20% β-sheet and 67% random form in the presence of calcium, and 1% α-helix, 20% β-sheet and 79% random form in the absence of calcium.
Form	50% glycerol/H2O (v/v)
Molecular Mass	5,800
Purity	>95% by SDS-PAGE
Storage	-80℃ aqueous; -20℃ glycerol

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GENE INFORMATION

Gene Name	BGLAP bone gamma-carboxyglutamate (gla) protein [Bos taurus]
Official Symbol	BGLAP
Synonyms	BGLAP; BOS_2768; BGP; bone Gla protein; gamma-carboxyglutamic acid-containing protein; osteocalcin
Gene ID	281646
mRNA Refseq	NM_174249.2
Protein Refseq	NP_776674.1
UniProt ID	P02820
Function	calcium ion binding

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