

Native Bovine Osteocalcin

Cat. No. BGLAP-286B Lot. No. (See product label)

SPECIFICATION

Species	Bovine
Source	Plasma
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% (vol/vol) glycerol/H ₂ O
Molecular Mass	5800
Characteristic	Extinction coefficient:13.3, Isoelectric point:4.0-4.5, Percent carbohydrate:0, Structure: Single chain, one intrachain disulfide bond, Cys 23-29.
Storage	-20°C

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