Recombinant Human BGLAP Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. BGLAP-010H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BGLAP MS Standard C13 and N15-labeled recombinant protein (NP_954642) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	8.7 kDa
AA Sequence	MRALTLLALLALAALCIAGQAGAKPSGAESSKGAAFVSKQEGSEVVKRPRRYLYQW LGAPVPYPDPLEPRREVCELNPDCDELADHIGFQEAYRRFYGPVTRTRPLEQKLISE EDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

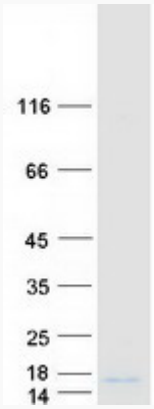
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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	BGLAP bone gamma-carboxyglutamate protein [Homo sapiens (human)]
Official Symbol	BGLAP
Synonyms	BGLAP; bone gamma-carboxyglutamate protein; BGP; OC; OCN; osteocalcin; bone gamma-carboxyglutamate (gla) protein (osteocalcin); gamma-carboxyglutamic acid-containing protein
Gene ID	632
mRNA Refseq	NM_199173
Protein Refseq	NP_954642
MIM	112260
UniProt ID	P02818

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SDS-PAGE	

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