

## Product datasheet for PH320555

### Osteocalcin (BGLAP) (NM\_199173) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	BGLAP MS Standard C13 and N15-labeled recombinant protein (NP_954642)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220555
Predicted MW:	8.7 kDa
Protein Sequence:	>RC220555 representing NM_199173 Red=Cloning site Green=Tags(s)  MRALTLALLLAAALCIAGQAGAKPSGAESSKGAAFVSKQEGSEVVKRPRRYLYQWLGAPVPYDPLEPR REVCELNPDCDELADHIGFQEAYRRFYGPV  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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_954642</a>
RefSeq Size:	498
RefSeq ORF:	300
Synonyms:	BGP; OC; OCN
Locus ID:	632
UniProt ID:	<a href="#">P02818</a>
Cytogenetics:	1q22



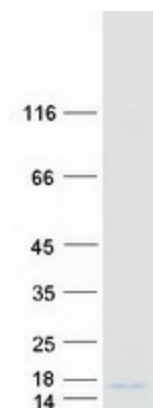
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**Summary:**

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. [provided by RefSeq, Jun 2015]

**Protein Families:**

ES Cell Differentiation/IPS, Secreted Protein

**Product images:**

Coomassie blue staining of purified BGLAP protein (Cat# [TP320555]). The protein was produced from HEK293T cells transfected with BGLAP cDNA clone (Cat# [RC220555]) using MegaTran 2.0 (Cat# [TT210002]).