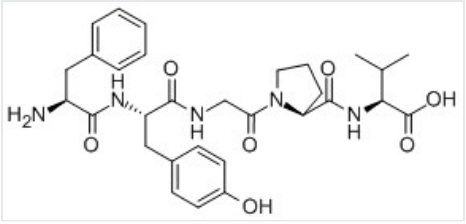
Osteocalcin (Human) Peptide – (45-49) Synthetic Peptide, >95% Purity

PRODUCT OVERVIEW

Product Name	Osteocalcin (BGLAP), Peptide
Full Product Name	Osteocalcin (45-49) (Human)
Product Gene Name	BGLAP peptide
Host	Synthetic
Form/Format	Lyophilized Powder
Purity/Purification	> 95%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	581.7
OMIM	112260
CAS Number	85679-70-5
Molecular Formula	C30H39N5O7
Chemical Structure	Phe-Tyr-Gly-Pro-Val
Related Product Information for BGLAP peptide	MBS8246846 is a peptide targeting BGLAP. Also known as Osteocalcin (45-49) (Human). Host: Synthetic. Peptide to Osteocalcin (45-49) (Human)
Other Notes	Small volumes of BGLAP peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Structure of BGLAP peptide

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BGLAP. It may not necessarily be applicable to this product.

NCBI GI #	40316933
NCBI GeneID	632
NCBI Accession #	NP_954642.1
UniProt Secondary Accession #	Q5TCK6
UniProt Related Accession #	P02818
GenBank Nucleotide #	NM_199173.5
NCBI Official Full Name	osteocalcin preproprotein

NCBI Official Synonym Full Names	bone gamma-carboxyglutamate protein
NCBI Official Symbol	BGLAP
NCBI Official Synonym Symbols	OC; BGP; OCN
UniProt Protein Name	Osteocalcin
UniProt Synonym Protein Names	Bone Gla protein; BGP; Gamma-carboxyglutamic acid-containing protein
Protein Family	Osteocalcin
UniProt Gene Name	BGLAP
UniProt Synonym Gene Names	BGP
UniProt Entry Name	OSTCN_HUMAN
NCBI Protein Information	osteocalcin
NCBI Summary for BGLAP	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]
UniProt Comments for BGLAP	osteocalcin: Constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium. Belongs to the osteocalcin/matrix Gla protein family. Protein type: Secreted; Cell development/differentiation; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1q22 Cellular Component: cytoplasm; endoplasmic reticulum lumen; Golgi lumen Biological Process: ER to Golgi vesicle-mediated transport; osteoblast differentiation; peptidyl-glutamic acid carboxylation; response to vitamin D; signal peptide processing; skeletal development
Research Articles on BGLAP	**1.** gestational diabetes is not associated with osteocalcin, under-carboxylated osteocalin, osteopontin and leptin and does not correlate with insulin resistance.
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