

Human Osteocalcin ELISA Kit | BGLAP elisa kit

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CATALOG #
AAA31505

REACTIVITY
Human

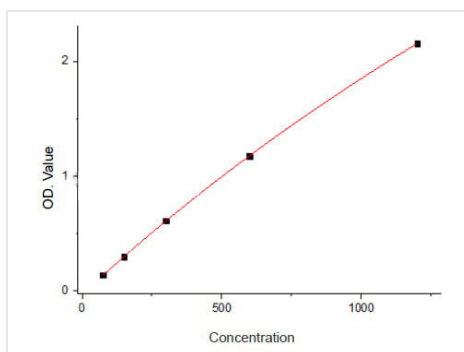
PRODUCT SYNONYMS

Osteocalcin; Human Osteocalcin ELISA Kit; BGLAP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Sequence Length	100
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	75 ng/L - 1200 ng/L
Sensitivity	< 5.0 ng/L
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%) $\leq$ 9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%) $\leq$ 11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BGLAP elisa kit	Background: Osteocalcin (OC) is the most abundant noncollagenous protein in mature bone where it constitutes 1% to 2% of the total protein. Synthesized by osteoblasts, it is incorporated into the bone matrix. Osteocalcin is a 49-residue protein with three gamma-carboxyglutamic acid residues, at positions 17, 21 and 24. These three residues confer on it a very strong ability to bind to hydroxyapatite. Osteocalcin is a noncollagenous protein found in bone and dentin. It is secreted by osteoblasts and thought to play a role in mineralization and calcium ion homeostasis. It has been stipulated that osteocalcin may also function as a negative regulator of bone formation, although its exact role is unknown. Principle of the Assay: Human Osteocalcin ELISA Kit employs a two-site sandwich ELISA to quantitate OC in samples. An antibody specific for OC has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any OC present is bound by the immobilized antibody. After removing any unbound substances, HRP-HRP-Conjugate Human OC detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of OC bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	40316933
NCBI GeneID	632
NCBI GenBank Nucleotide #	NP_954642.1
UniProt Accession #	P02818
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
NCBI Protein Information	osteocalcin
UniProt Protein Name	Osteocalcin
UniProt Gene Name	BGLAP
UniProt Synonym Gene Names	BGP
UniProt Entry Name	OSTCN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.