

Mouse bone gamma-carboxyglutamate (gla) protein ELISA Kit | BGLAP elisa kit

Mouse Osteocalcin/Bone gla protein, OT/BGP ELISA Kit

CATALOG #
AAA79932

REACTIVITY
Mouse

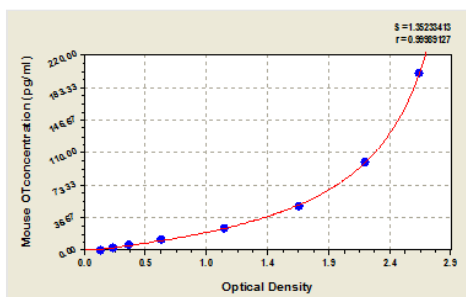
PRODUCT SYNONYMS

bone gamma-carboxyglutamate (gla) protein; Mouse Osteocalcin/Bone gla protein; OT/BGP ELISA Kit; OT/BGP ELISA kit; RP11-54H19.5; BGP; OC; PMF1; bone Gla protein; bone gamma-carboxyglutamate (gla) protein (osteocalcin) ; gamma-carboxyglutamic acid-containing protein; osteocalcin; BGLAP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse BGLAP. No significant cross-reactivity or interference between Mouse BGLAP and analogues was observed.
Sequence Length	95
Samples	Serum, plasma, tissue homogenates
Detection Range	3.12 pg/ml-200 pg/ml
Sensitivity	0.78 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Biosynthesis/Metabolism
Protein Biological Process 3	Biomineralization
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BGLAP elisa kit	Introduction: 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. As osteocalcin is manufactured by osteoblasts, it is often used as a biochemical marker, or biomarker, for the bone formation process. It has been routinely observed that higher serum-osteocalcin levels are relatively well correlated with increases in bone mineral density (BMD) during treatment with anabolic bone formation drugs for osteoporosis, such as Forteo. In many studies, Osteocalcin is used as a preliminary biomarker on the effectiveness of a given drug on bone formation. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to OT. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated 2 antibody preparation specific for OT and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain OT, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of OT in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6671634
NCBI GeneID	12096
NCBI Accession #	NP_031567.1
NCBI GenBank Nucleotide #	NM_007541.3
UniProt Accession #	P86546; P04641
Molecular Weight	10,549 Da
NCBI Official Full Name	osteocalcin isoform 1
NCBI Official Synonym Full Names	bone gamma carboxyglutamate protein
NCBI Official Symbol	Bglap
NCBI Official Synonym Symbols	OC; OG1; mOC-A; Bglap1
NCBI Protein Information	osteocalcin; BGP; bone Gla protein; bone gamma carboxyglutamate protein 1; gamma-carboxyglutamic acid-containing protein
UniProt Protein Name	Osteocalcin
UniProt Gene Name	Bglap
UniProt Synonym Gene Names	BGP
UniProt Entry Name	OSTCN_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/bglap-mouse-elisa-kits/bone-gamma-carboxyglutamate-gla-protein/79932>