

Human Cross-Linked Carboxy-Terminal Telopeptide Of Type I Collagen (CTX-I) ELISA Kit | CTX-I elisa kit

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CATALOG # AAA331026	REACTIVITY Human
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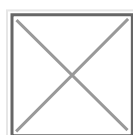
PRODUCT SYNONYMS

Cross-Linked Carboxy-Terminal Telopeptide Of Type I Collagen (CTX-I); Human Cross-Linked Carboxy-Terminal Telopeptide Of Type I Collagen (CTX-I) ELISA Kit; CTX-I elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Cross-linked Carboxy-terminal telopeptide of type I collagen (CTX-I) ELISA Kit has high sensitivity and excellent specificity for detection of Human CTX-I. No significant cross-reactivity or interference between Human CTX-I and analogues was observed.
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	<ul style="list-style-type: none"> * Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Cross-linked Carboxy-terminal telopeptide of type I collagen (CTX-I) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for CTX-I elisa kit	<p>Description: This Human Cross-linked Carboxy-terminal telopeptide of type I collagen (CTX-I) ELISA Kit employs a two-site sandwich ELISA to quantitate CTX-I in samples. An antibody specific for CTX-I has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CTX-I present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CTX-I is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CTX-I bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: Type I collagen is a heterotrimer consisting of two alpha1(I) chains and one alpha2(I) chain. NTx assays are sensitive and specific assays that can be used to indicate subtle changes in levels of bone resorption. NTx serum and urine assays provide a quantitative measurement of the cross-linked N-telopeptides of bone type I collagen (NTx). NTx is a specific biochemical indicator of bone resorption that is generated as a result of osteoclast activity on bone. The NTx molecule is specific to bone due to the unique amino acid sequence and orientation of the cross-linked alpha-2 (I) N-telopeptide. NTx provides a dynamic indicator of the current level of bone resorption, shows significantly earlier response to therapy (with 3-6 months) and, when used in conjunction with bone mineral density (BMD), gives a more complete picture of bone status than either technology alone.</p>
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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/human-elisa-kits/cross-linked-carboxy-terminal-telopeptide-of-type-i-collagen-ctx-i/331026>