

CPA665Hu01 10µg

Composite Cross Linked C-Telopeptide Of Type I Collagen (CTXI)

Organism Species: Homo sapiens (Human)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[PROPERTIES]

Residues: Synthetic Peptide

Purity: >95%

Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).

Formulation: Supplied as lyophilized form.

Predicted isoelectric point: 8.6

Predicted Molecular Mass: 1422.5Da

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

[RELEVANCE]

Subsequent to osteoclastic bone resorption and collagen matrix degradation, cross-linked telopeptides of type I collagen are released into the circulation. Since cross-linked telopeptides result from posttranslational modification of collagen molecules, they cannot be reused during collagen synthesis and are therefore precise indicators of bone resorption. C-terminal telopeptides of type I collagen (ICTP) have been identified as biomarkers of bone resorption and bone turnover in a variety of osseous metabolic diseases including osteoporosis, rheumatoid arthritis, periodontal disease, and peri-implant disease.

[**USAGE**]

Reconstitute in ddH₂O.

[**STORAGE AND STABILITY**]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[**SEQUENCES**]

The synthetic peptide's sequence is listed below.

EKAHDGGYYRA