

**CPA957Hu31 100µg**

**KLH Conjugated Procollagen I N-Terminal Propeptide (PINP)**

**Organism Species: Homo sapiens (Human)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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9th Edition (Revised in Jul, 2013)

## **[ PROPERTIES ]**

**Antigen:** PINP-KLH

**Residues:** Synthetic Peptide

**Predicted isoelectric point:** 4.3

**Predicted Molecular Mass:** 1633Da

**Purity:** >95%

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

**Formulation:** Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.

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

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

## **[ RELEVANCE ]**

P1NP is the most effective marker of bone formation and is particularly useful for monitoring bone-formation and antiresorptive therapies. Concentrations are increased in patients with various bone diseases, including bone metastases and therapies, which are characterized by increased osteoblastic activity. Moreover, Collagen type I constitutes 90% of bone, but it is also present in many other tissues including liver, skin and tendons.

## **[ USAGE ]**

Reconstitute in sterile PBS, pH7.2-pH7.4.

## **[ 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 target peptide's sequence is listed below.

TKNCPGAEVPEGECCP