

# ELISA Kit for Collagen Type I (COL1)

Catalog No: tcue1688



## Available Sizes

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**Size:** 96T

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## Specifications

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**Research Area:**

Metabolic pathway;Developmental science;Bone metabolism;

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**Species Reactivity:**

Rattus norvegicus (Rat)

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**Sample Type:**

serum, plasma and other biological fluids

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**Sensitivity:**

The minimum detectable dose of this kit is typically less than 0.239ng/mL

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**Detection Range:**

0.625-40ng/mL

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**Assay Time:**

3h

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**Detection Method:**

Enzyme-linked immunosorbent assay for Antigen Detection.

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**Tested Application:**

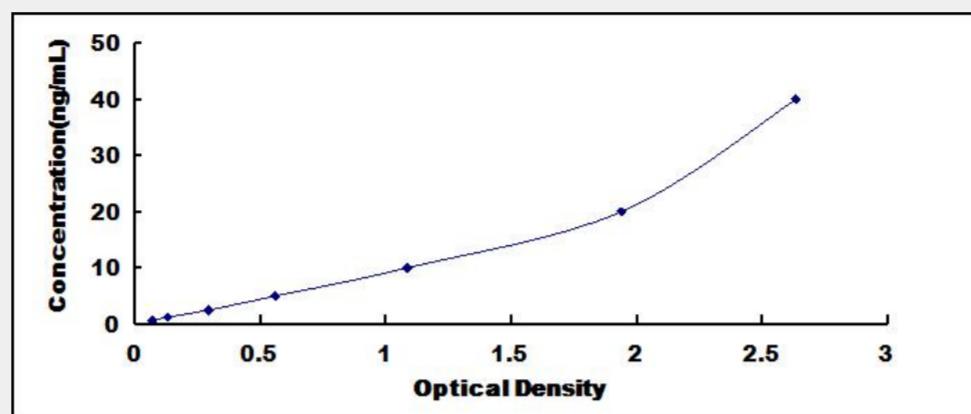
ELISA

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## Test Principle

The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Collagen Type I (COL1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Collagen Type I (COL1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Collagen Type I (COL1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is

terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of  $450\text{nm} \pm 10\text{nm}$ . The concentration of Collagen Type I (COL1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!