Rabbit Pyridinoline (PYD) ELISA Kit

Catalog No: #EK12166

Package Size: #EK12166-1 48T #EK12166-2 96T

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Description

Product Name	Rabbit Pyridinoline (PYD) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rabbit (Oryctolagus cuniculus)
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PYD in samples. An antibody specific for PYD has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPYD present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PYD 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 PYD bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Pyridinoline is a crosslink compound isolated from bovine Achilles tendon collagen. It is a 3-hydroxypyridinium derivative with three amino and three carboxyl groups.?The pyridinoline content of bovine Achilles tendon was 0.16 residue per 1,000 residues and that of rat Achilles tendon collagen was 0.017 residue per 1,000 residues. Besides Achilles tendon collagens, pyridinoline was found in collagens from coastal cartilage, rib and femoral bone of rat. It was not found in collagens from the tail tendon and skin of rat. A crosslinked, triple-chained peptide containing pyridinoline was isolated from bovine Achilles tendon collagen after digestion with pronase. Its amino acid composition suggests that the peptide may be involved in an intermolecular crosslink among a carboxyterminal sequence, a sequence near the aminoterminus and a sequence in the helical region.

Note: This product is for in vitro research use only