

## Cat Troponin I, cardiac muscle (TNNI3) ELISA Kit

Catalog No: #EK6155



Package Size: #EK6155-1 48T #EK6155-2 96T

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## Description

Product Name	Cat Troponin I, cardiac muscle (TNNI3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Cat (Felis catus,Feline)
Other Names	CMD2A; CMH7; MGC116817; RCM1; TNNC1; cTnI; familial hypertrophic cardiomyopathy 7 troponin I; cardiac
Accession No.	Q863B6
Uniprot	Q863B6
GeneID	493744;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:2.34-150 ng/mL

Sensitivity:0.65 ng/mL

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 TNNI3 in samples. An antibody specific for TNNI3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTNNI3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNNI3 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 TNNI3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Troponin I is part of a heteromeric complex playing an important role in the regulation of skeletal and cardiac muscle contraction. It consists of three subunits, troponin I (TnI), troponin T (TnT) and troponin C (TnC). Each subunit is responsible for part of troponin complex function. TnI inhibits ATPase activity of acto myosin and TnT and TnI are present in cardiac muscles in different forms than in skeletal muscles. Only one tissue specific isoform of TnI is described for cardiac muscle tissue (cTnI) and this is expressed only in myocardium.Equally reactive with free cardiac troponin I (cTnI) and cTnI forming complexes with other troponin components. (In the presence of 5 mM EDTA). Antibodies are not affected by heparin, phosphorylation, oxidation and troponin complex formation. No cross-reaction with skeletal muscle troponin I.

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Note: This product is for in vitro research use only