

Rat Cardiac Troponin I ELISA Kit | cTnI elisa kit

Rat Cardiac Troponin I (cTnI) (Sandwich ELISA) Mini sample ELISA Kit

CATALOG #
AAA190003

REACTIVITY
Rat

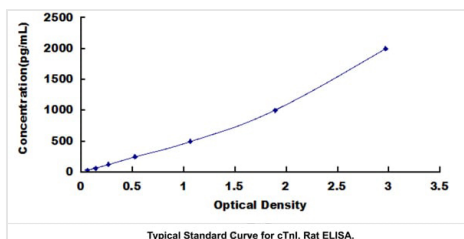
PRODUCT SYNONYMS

Cardiac Troponin I; Rat Cardiac Troponin I (cTnI) (Sandwich ELISA) Mini sample ELISA Kit; TNNI3; TNNC1; CMH7; C-TnI; Troponin I Type 3; Cardiac; Mini Samples ELISA Kit for Cardiac Troponin I (cTnI); cTnI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of cTnI. No significant cross-reactivity or interference between cTnI and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	< 11.1pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level cTnI were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level cTnI were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	4 degree C for 1 month/ -20 degree C for long-term(within shelf life). Shelf life is one year

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for cTnI elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to cTnI. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to cTnI. 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 cTnI, 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 450nm ± 10nm. The concentration of cTnI in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of cTnI in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for cTnI elisa kit	Cardiovascular biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	8394469
NCBI GeneID	29248
NCBI Accession #	NP_058840.1
NCBI GenBank Nucleotide #	NM_017144.2
UniProt Accession #	P23693; Q4PP23
Molecular Weight	24,160 Da
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I3, cardiac type
NCBI Official Symbol	Tnni3
NCBI Official Synonym Symbols	TnI; cTNI
NCBI Protein Information	troponin I, cardiac muscle
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	Tnni3
UniProt Synonym Gene Names	Ctni; Tni

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ctni-rat-elisa-kits/cardiac-troponin-i/190003>