

SuperNuclease ELISA Kit

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CATALOG #
AAA258578

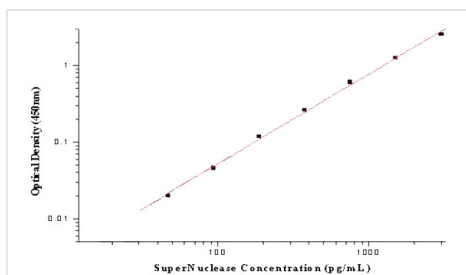
PRODUCT SYNONYMS

SuperNuclease; SuperNuclease ELISA Kit; SuperNuclease elisa kit

PRODUCT SPECIFICATIONS

Assay Type	Quantitative Sandwich
Sensitivity	< 14.55 pg/mL
Intra-assay Precision	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in five separate assays to assess inter-assay precision.
Preparation and Storage	Unopened Kit: Store at 2-8 degree C Opened/Reconstituted Reagents: Please refer to CoA

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SuperNuclease elisa kit	Background: The SuperNuclease is a nonspecific nuclease with high activity, capable of completely digesting RNA and DNA (single stranded, double stranded, linear, circular and super coiled forms, that no fewer than five phosphate residues [1]) into 5'-monophosphate-terminated oligonucleotides of 3-5 bases in length [2]. SuperNuclease requires divalent cation, preferably Mg2+ for activity, displays a broad pH tolerance (range from 6 to 10, optimal at 8-8.5) and has a wide temperature optimum between 35° and 44° [3]. The nuclease is a homodimer (the dimer form is physiologic and functions more progressively than the monomer [3,4,5,6,7]). Two disulfide bonds in the nuclease are crucial to its activity and stability [9]. It does not have typical protease activity detected by azocasein assay. Its high intrinsic activity and broad substrate tolerance make the endonuclease an ideal tool in a variety of biotechnological and pharmaceutical applications. SuperNuclease can be removed by various purification methods. Principle of the Assay: The principle of this ELISA kit is based on the solid phase sandwich enzyme immunoassay technique. A monoclonal antibody specific for SuperNuclease has been pre-coated onto well plate strips. Standards and samples are added to the wells and SuperNuclease present in the sample is bound by the immobilized antibody. After incubation the wells are washed and a horseradish peroxidase conjugated anti-SuperNuclease antibody is added, producing an antibody-antigen-antibody "sandwich complex". Following a wash to remove any unbound antibody a TMB substrate solution is loaded and color develops in proportion to the amount of SuperNuclease bound. The reaction is stopped by the addition of a stop solution and the intensity of the color can be measured at 450 nm (See schematics below). Intended Uses: The kit is used for detection and quantitative determination of SuperNuclease and Benzonase endonuclease, and also can detect the denatured SuperNuclease and Benzonase.
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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://www.aaabiotech.com/elisa-kits/supernuclease/258578>