

Human NAD-Dependent Deacetylase Sirtuin-3, Mitochondrial (SIRT3) ELISA Kit | SIRT3 elisa kit

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CATALOG #
AAA330862

REACTIVITY
Human

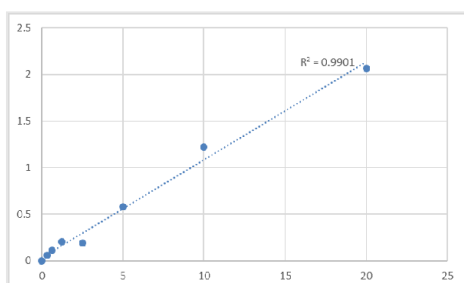
PRODUCT SYNONYMS

NAD-Dependent Deacetylase Sirtuin-3; Mitochondrial (SIRT3); Human NAD-Dependent Deacetylase Sirtuin-3; Mitochondrial (SIRT3) ELISA Kit; SIR2L3; mitochondrial nicotinamide adenine dinucleotide-dependent deacetylase; silent mating type information regulation 2; S.cerevisiae; homolog 3; sir2-like 3; sirtuin 3; sirtuin type 3; SIRT3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human NAD-dependent deacetylase sirtuin-3, mitochondrial (SIRT3) ELISA Kit has high sensitivity and excellent specificity for detection of Human SIRT3. No significant cross-reactivity or interference between Human SIRT3 and analogues was observed.
Sequence Length	257
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human NAD-dependent deacetylase sirtuin-3, mitochondrial (SIRT3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SIRT3 elisa kit	Description: This Human NAD-dependent deacetylase sirtuin-3, mitochondrial (SIRT3) ELISA Kit employs a two-site sandwich ELISA to quantitate SIRT3 in samples. An antibody specific for SIRT3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SIRT3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SIRT3 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 SIRT3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: SIRT3 is a soluble protein located in the mitochondrial matrix, and contains a mitochondrial processing peptide at the N-terminus. A set of crystal structures of human SIRT3 have been solved, including an apo-structure with no substrate, a structure with a peptide containing acetyl lysine of its natural substrate acetyl-CoA synthetase 2, a reaction intermediate structure trapped by a thioacetyl peptide and a structure with the dethioacetylated peptide bound. These structures show the conformational changes induced by the two substrates required for the reaction, the acetylated substrate peptide and NAD+. In addition, a binding study by isothermal titration calorimetry suggests that the acetylated peptide is the first substrate to bind to SIRT3, prior to NAD+.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	63054862
NCBI GeneID	23410
NCBI Accession #	NP_001017524.1
NCBI GenBank Nucleotide #	NP_001017524.1
UniProt Accession #	Q9NTG7
NCBI Official Full Name	NAD-dependent protein deacetylase sirtuin-3, mitochondrial isoform b
NCBI Official Synonym Full Names	sirtuin 3
NCBI Official Symbol	SIRT3
NCBI Official Synonym Symbols	SIR2L3
NCBI Protein Information	NAD-dependent protein deacetylase sirtuin-3, mitochondrial
UniProt Protein Name	NAD-dependent protein deacetylase sirtuin-3, mitochondrial
UniProt Gene Name	SIRT3
UniProt Synonym Gene Names	SIR2L3; hSIRT3
UniProt Entry Name	SIR3_HUMAN

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/human-elisa-kits/nad-dependent-deacetylase-sirtuin-3-mitochondrial-sirt3/330862>