

Rat Sirtuin 7 (SIRT7) ELISA Kit | SIRT7 elisa kit

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CATALOG #
AAA186728

REACTIVITY
Rat

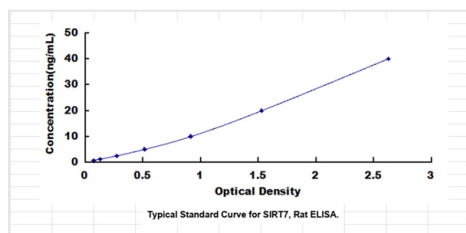
PRODUCT SYNONYMS

Sirtuin 7 (SIRT7); Rat Sirtuin 7 (SIRT7) ELISA Kit; SIR2L7; NAD-Dependent Deacetylase Sirtuin-7; Silent Mating Type Information Regulation 2 Homolog 7; Regulatory protein SIR2 homolog 7; SIR2-like protein 7; SIRT7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of SIRT7. No significant cross-reactivity or interference between SIRT7 and analogues was observed.
Sequence Length	771
Assay Type	Quantitative Sandwich
Samples	Rat tissue homogenates, cell lysates and other biological fluids
Detection Range	0.625-40ng/mL
Sensitivity	< 0.273ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SIRT7 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 SIRT7 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SIRT7 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SIRT7. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SIRT7. 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 SIRT7, 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 SIRT7 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 SIRT7 in rat tissue homogenates, cell lysates and other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	24650933
NCBI GeneID	43433
NCBI Accession #	NP_651664.2
NCBI GenBank Nucleotide #	NM_143407.3
Molecular Weight	88,469 Da
NCBI Official Full Name	sirtuin 7
NCBI Official Synonym Full Names	Sirtuin 7
NCBI Official Symbol	Sirt7
NCBI Official Synonym Symbols	CG11305; D.mel5; DmelCG11305; dmSRT409; dSIRT7; SIRT7
NCBI Protein Information	CG11305 gene product from transcript CG11305-RA
UniProt Protein Name	NAD-dependent protein deacetylase Sirt7
UniProt Gene Name	Sirt7

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.