SIRT1 Direct Fluorescent Screening Assay Kit

Catalog # KA1366 Size 1 Kit

Applications

Result Data

Result Data

Inhibition of SIRT1 by Sirtinol (IC_{50}= 38 uM).

Specification

Product Description	SIRT1 Direct Fluorescent Screening Assay Kit provides a fluorescence-based method for screening SIRT1 inhibitors or activators.
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at -80°C.
Note	Result Data Result Data Inhibition of SIRT1 by Sirtinol (IC_{50}= 38 uM).

Applications

- Functional Study

Gene Info — SIRT1

Entrez GeneID	23411

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Gene Name	SIRT1
Gene Alias	SIR2L1
Gene Description	sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)
Omim ID	604479
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four cla sses. The functions of human sirtuins have not yet been determined; however, yeast sirtuin protein s are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ri bosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin famil y. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Other Designations	OTTHUMP00000019691|OTTHUMP00000060745|SIR2alpha|sir2-like 1|sirtuin 1|sirtuin type 1

Publication Reference

- Palmitic Acid-Evoked PKR/JNK Activation and SIRT1 Decline: Association with myocardial ageing phenotype changes and Partial Reversal by Inhibitors.

  Wenxi Li, Guoshun Liu, Shuijin Huang, Tianhai Lin, Cheng Peng, Feng Liu.

  Tissue and Cell 2026 Feb; 101:103399.

  Application: Flow Cyt, Func, IHC-P, qPCR, RNAi, S-ELISA, WB-Ti, Mouse, Rat, H9c2, Mouse heart tissue

- Taurine, homotaurine, GABA and hydrophobic amino acids content influences "in vitro" antioxidant and SIRT1 modulation activities of enzymatic protein hydrolysates from algae.

  Carlos Terriente-Palacios, Susana Rubiño, Maria Hortós, César Peteiro, Massimo Castellari.

  Scientific Reports 2022 Dec; 12(1):20832.

  Application: Func, Algae, Brown, Green, Red algae

- Taurine, Homotaurine, GABA and hydrophobic amino acids content influences “in vitro” antioxidant and SIRT1 modulation activities of enzymatic protein hydrolysates from algae.

  Carlos Terriente-Palacios, Susana Rubino Campoy, Maria Hortos, Cesar Peteiro, Massimo Castellari.

  Scientific Reports 2022 Dec; 12(1):20832.

  Application: Enzyme, Algae, Red, Green algae

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- Carboxyamidotriazole alleviates muscle atrophy in tumor-bearing mice by inhibiting NF-κB and activating SIRT1.

  Chen C, Ju R, Zhu L, Li J, Chen W, Zhang DC, Ye CY, Guo L.

  Naunyn-Schmiedeberg's Archives of Pharmacology 2017 Apr; 390(4):423.

  Application: Enzyme, Quant, Mouse, LLC cells

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Cognition
- Depressive Disorder
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Insulin Resistance
- Kidney Failure
- Lymphoma
- Obesity
- Overweight
- Psychiatric Status Rating Scales
- Tobacco Use Disorder

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