# SIRT1 FRET-Based Screening Assay Kit

Catalog # KA1367 Size 1 Kit

## Applications

### Result Data

Result Data

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

## Specification

| | |
|---|---|
| **Product Description** | SIRT1 FRET-based Screening Assay Kit provides a fluorescence-based method for screening SIRT 1 inhibitors or activators. |
| **Regulation Status** | For research use only (RUO) |
| **Storage Instruction** | Store the kit at -80°C. |
| **Note** | Result Data<br>Result Data<br>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 |

## 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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