

Recombinant Rat Sirt1 Protein, His-tagged

Cat. No. Sirt1-2058R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Sirt1 Protein (Met1-Tyr490) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Tyr490
Description	Enables NAD-dependent histone deacetylase activity and protein kinase B binding activity. Involved in several processes, including cellular response to ketone; negative regulation of apoptotic process; and regulation of peptide hormone secretion. Located in cytosol; growth cone; and nucleus. Used to study middle cerebral artery infarction; obesity; osteoporosis; and type 2 diabetes mellitus. Biomarker of several diseases, including acute kidney failure; artery disease (multiple); impotence; non-alcoholic fatty liver disease; and obesity. Human ortholog(s) of this gene implicated in Huntington's disease and prostate cancer. Orthologous to human SIRT1 (sirtuin 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 58.5 kDa Accurate Molecular Mass: 66 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Sirt1 sirtuin 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Sirt1
Synonyms	SIRT1; sirtuin 1; NAD-dependent deacetylase sirtuin-1; Sir2alpha; sirtuin 1 ((silent mating type information regulation 2, homolog) 1; Sir2;
Gene ID	309757
mRNA Refseq	NM_001107627
Protein Refseq	NP_001101097

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