

Recombinant Mouse SIRT1 protein, His-tagged

Cat. No. SIRT1-101M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse SIRT1 protein (Glu236-Ala490), fused to His-tag at N-terminus, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	255
Description	This gene encodes a member of the sirtuin family of proteins, characterized by their deacetylase activity and proposed role in longevity. The encoded protein regulates gene expression in a wide range of cell and tissue types through its NAD ⁺ -dependent deacetylation of histones, transcription factors and transcriptional coactivators. Brain-specific overexpression of this gene has been shown to result in increased median lifespan. Viability of homozygous knockout mice for this gene varies with strain background. Homozygous knockout mice of strains that do not exhibit embryonic lethality are sterile and have a reduced lifespan. Alternative splicing results in multiple transcript variants.
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin 300.
Molecular Mass	30.0 kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

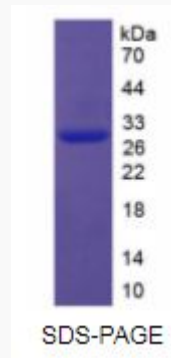
Gene Name	Sirt1
Official Symbol	Sirt1
Synonyms	Sir2; Sir2a; SIR2L1; AA673258; Sir2alpha
Gene ID	93759
mRNA Refseq	NM_019812.3
Protein Refseq	NP_062786.1
UniProt ID	Q923E4

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**SDS-PAGE of SIRT1-
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