

Recombinant Mouse Sirt1 Protein, Myc/DDK-tagged

Cat. No. Sirt1-5883M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length sirtuin 1 (Sirt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	80.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Sirt1 sirtuin 1 [*Mus musculus* (house mouse)]

Official Symbol Sirt1

Synonyms Sirt1; sirtuin 1; S; Si; Sir2; Sir2a; SIR2L1; AA673258; Sir2alpha; NAD-dependent protein deacetylase sirtuin-1; NAD-dependent protein deacylase sirtuin-1; SIR2-like protein 1; regulatory protein SIR2 homolog 1; sirtuin 1 ((silent mating type information regulation 2, homolog) 1; EC 2.3.1.286

Gene ID 93759

mRNA Refseq NM_019812

Protein Refseq NP_062786

UniProt ID Q923E4

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