

## Recombinant Mouse Sirt6 Protein, Myc/DDK-tagged

Cat. No. Sirt6-5885M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length sirtuin 6 (Sirt6), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	NAD-dependent protein deacetylase. Has deacetylase activity towards histone H3K9Ac and H3K56Ac. Modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. Deacetylates histone H3K9Ac at NF-kappa-B target promoters and may down-regulate the expression of a subset of NF-kappa-B target genes. Deacetylation of nucleosomes interferes with RELA binding to target DNA. May be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance. On DNA damage, promotes DNA end resection via deacetylation of RBBP8. Has very weak deacetylase activity and can bind NAD <sup>+</sup> in the absence of acetylated substrate. Acts as a corepressor of the transcription factor Hif1a to control the expression of multiple glycolytic genes to regulate glucose homeostasis. Required for genomic stability. Required for normal IGF1 serum levels and normal glucose homeostasis. Modulates cellular senescence and apoptosis. Regulates the production of TNF protein. Has a role in the regulation of life span in male mice, but not in female mice.
<b>Molecular Mass</b>	37.4 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	Sirt6 sirtuin 6 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Sirt6
<b>Synonyms</b>	SIRT6; sirtuin 6 (silent mating type information regulation 2, homolog) 6 ( <i>S. cerevisiae</i> ); NAD-dependent deacetylase sirtuin-6; SIR2-like protein 6; Sir2I6; AI043036; 2810449N18Rik
<b>Gene ID</b>	50721
<b>mRNA Refseq</b>	NM_181586
<b>Protein Refseq</b>	NP_853617
<b>UniProt ID</b>	P59941

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