

Active Recombinant Human Sirtuin 6, His-tagged

Cat. No. SIRT6-4882H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SIRT6 (23-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
ProteinLength	23-end a.a.
Description	SIRT6 is a member of the sirtuin family of proteins which are homologs to the yeast Sir2 protein. Sirtuin family contain a sirtuin core domain and are grouped into four classes with SIRT6 being a member of class IV. Human SIRT6 protein is a NAD (+)-dependent histone H3 lysine-9 deacetylase that modulates telomeric chromatin. SIRT6 associates specifically with telomeres and SIRT6 depletion leads to telomere dysfunction with end-to-end chromosomal fusions and premature cellular senescence.
Applications	SIRT Assay
Molecular Weight	39 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.

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Specific Activity	120 RLU/min/mg
Purity	> 90 %
Concentration	0.1 ug/ul
Sequences	23-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Signaling events mediated by HDAC Class I

GENE INFORMATION

Gene Name	SIRT6 sirtuin 6 [Homo sapiens]
Official Symbol	SIRT6
Synonyms	SIRT6; sirtuin 6; SIR2L6; NAD-dependent deacetylase sirtuin-6; sirtuin type 6; SIR2-like protein 6; sir2-related protein type 6; EC 2.4.2.31; sirtuin (silent mating type information regulation 2 homolog) 6 (S. cerevisiae); sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 6
Gene ID	51548
mRNA Refseq	NM_016539
Protein Refseq	NP_057623

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MIM	606211
UniProt ID	Q8N6T7
Chromosome Location	19p13.3
Function	NAD binding; NAD (P)+-protein-arginine ADP-ribosyltransferase activity; NAD+ ADP-ribosyltransferase activity; hydrolase activity; metal ion binding; protein binding; transferase activity, transferring glycosyl groups; zinc ion binding; NAD-dependent histone deacetylase activity; NAD-dependent histone deacetylase activity (H3-K9 specific)

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