

Recombinant Human Sirtuin 6, GST-tagged

Cat. No. SIRT6-4883H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human SIRT6 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
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	Western Blot
Molecular Weight	66 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25 % glycerol.
Purity	> 85 %

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Concentration	0.2 ug/ul
Sequences	Full-length
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 (<i>S. cerevisiae</i>); sirtuin (silent mating type information regulation 2, <i>S. cerevisiae</i> , homolog) 6
Gene ID	51548
mRNA Refseq	NM_016539
Protein Refseq	NP_057623
MIM	606211
UniProt ID	Q8N6T7

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Chromosome

19p13.3

Location

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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