

## Active Recombinant Human SIRT6 Protein, GST-tagged

Cat. No. SIRT6-28517H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human Sirtuin 6 (GenBank Accession No. NM_016539), full length with N-terminal GST-tag was expressed in an E. coli expression system.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	This gene encodes a member of the sirtuin family of NAD-dependent enzymes that are implicated in cellular stress resistance, genomic stability, aging and energy homeostasis. The encoded protein is localized to the nucleus, exhibits ADP-ribosyl transferase and histone deacetylase activities, and plays a role in DNA repair, maintenance of telomeric chromatin, inflammation, lipid and glucose metabolism. Alternative splicing results in multiple transcript variants encoding different isoforms.
<b>Form</b>	Aqueous buffer solution
<b>Bio-activity</b>	1.5 pmol/min/g Assay Conditions: 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl <sub>2</sub> , and 0.1 mg/ml BSA, 20 $\mu$ M BPS SIRT6 substrate 2, 500 $\mu$ M NAD <sup>+</sup> and Sirtuin 6 (18 – 2000 ng). Incubation condition: 60 min at 37°C followed by developing for 15 min at room temperature.
<b>Molecular Mass</b>	65 kDa
<b>Applications</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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<b>Storage</b>	At least 6 months at –80 centigrade. Avoid freeze/thaw cycles.
<b>Storage Buffer</b>	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 16 mM glutathione, 20% glycerol
<b>Warning</b>	Avoid freeze/thaw cycles.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	SIRT6 sirtuin 6 [ Homo sapiens (human) ]
<b>Official Symbol</b>	SIRT6
<b>Synonyms</b>	SIRT6; sirtuin 6; SIR2L6; NAD-dependent protein deacetylase sirtuin-6; SIR2-like protein 6; regulatory protein SIR2 homolog 6; sir2-related protein type 6; sirtuin type 6; EC 2.4.2.31
<b>Gene ID</b>	51548
<b>mRNA Refseq</b>	NM_016539
<b>Protein Refseq</b>	NP_057623
<b>MIM</b>	606211
<b>UniProt ID</b>	Q8N6T7
<b>Specific Activity</b>	
<b>SDS-PAGE</b>	

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