

Active Recombinant Human SIRT6 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human Sirtuin 6 (GenBank Accession No. NM_016539), full length with N-terminal GST-tag was expressed in an E. coli expression system.
Species	Human
Source	E.coli
Description	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.
Form	Aqueous buffer solution
Bio-activity	1.5 pmol/min/g Assay Conditions: 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl ₂ , and 0.1 mg/ml BSA, 20 μ M BPS SIRT6 substrate 2, 500 μ M NAD ⁺ and Sirtuin 6 (18 – 2000 ng). Incubation condition: 60 min at 37°C followed by developing for 15 min at room temperature.
Molecular Mass	65 kDa
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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Storage	At least 6 months at –80 centigrade. Avoid freeze/thaw cycles.
Storage Buffer	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 16 mM glutathione, 20% glycerol
Warning	Avoid freeze/thaw cycles.
Full Length	Full L.
GENE INFORMATION	
Gene Name	SIRT6 sirtuin 6 [Homo sapiens (human)]
Official Symbol	SIRT6
Synonyms	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
Gene ID	51548
mRNA Refseq	NM_016539
Protein Refseq	NP_057623
MIM	606211
UniProt ID	Q8N6T7
Specific Activity	
SDS-PAGE	