

## Active Recombinant Human Sirtuin 3, GST-tagged

Cat. No. SIRT3-4877H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human SIRT3 (47-end) was expressed by baculovirus in Sf9 insect cells using a C-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	47-end a.a.
<b>Description</b>	SIRT3 is a member of the class I of the Sirtuin family that is characterized by a Sirtuin core domain. Sirtuin are grouped into four classes and are homologs to the Sir2 protein. SIRT3 is known to regulate the epigenetic gene silencing and suppresses recombination of rDNA. SIRT3 may function as an intracellular regulatory protein with mono-ADP-ribosyltransferase activity that is essential for its silencing function.
<b>Applications</b>	SIRT Assay
<b>Molecular Weight</b>	66 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	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.
<b>Specific Activity</b>	150 RLU/min/mg

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 70 %
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	47-end
<b>Storage</b>	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.
<b>Pathways</b>	Signaling events mediated by HDAC Class I; Signaling events mediated by HDAC Class III; Energy Metabolism

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SIRT3 sirtuin 3 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">SIRT3</a>
<b>Synonyms</b>	SIRT3; sirtuin 3; SIR2L3; NAD-dependent deacetylase sirtuin-3, mitochondrial; sir2-like 3; sirtuin type 3; OTTHUMP00000147616; OTTHUMP00000230525; OTTHUMP00000230526; OTTHUMP00000230527; OTTHUMP00000230528; SIR2-like protein 3; silent mating type information regulation 2, S.cerevisiae, homolog 3; mitochondrial nicotinamide adenine dinucleotide-dependent deacetylase; EC 3.5.1.-; sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae); sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 3
<b>Gene ID</b>	<a href="#">23410</a>
<b>mRNA Refseq</b>	<a href="#">NM_001017524</a>

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**Protein Refseq** NP\_001017524

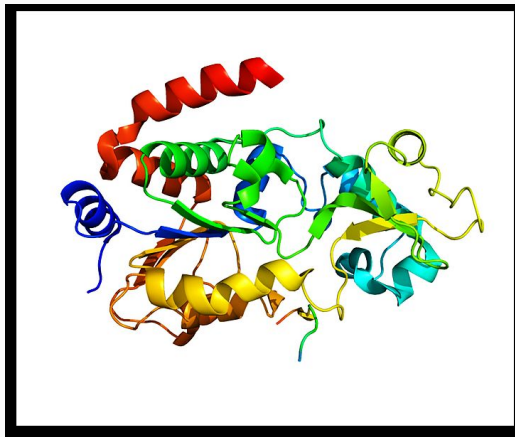
**MIM** 604481

**UniProt ID** Q9NTG7

**Chromosome  
Location** 11p15.5

**Function** NAD binding; NAD+ ADP-ribosyltransferase activity; hydrolase activity; hydrolase activity; metal ion binding; protein binding; zinc ion binding

Rendering based on  
PDB 3GLR.



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