

Active Recombinant Human Sirtuin 3, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant human SIRT3 (47-end) was expressed by baculovirus in Sf9 insect cells using a C-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	47-end a.a.
Description	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.
Applications	SIRT Assay
Molecular Weight	66 kDa
Expression System	Sf9 insect cells using baculovirus
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.
Specific Activity	150 RLU/min/mg

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Purity	> 70 %
Concentration	0.1 ug/ul
Sequences	47-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; Signaling events mediated by HDAC Class III; Energy Metabolism
GENE INFORMATION	
Gene Name	SIRT3 sirtuin 3 [Homo sapiens]
Official Symbol	SIRT3
Synonyms	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
Gene ID	23410
mRNA Refseq	NM_001017524

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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
Renderingbased on PDB 3GLR.	