

Recombinant Human SIRT3 293 Cell Lysate

Cat. No. SIRT3-1832HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for sirtuin (silent mating type information regulation 2 homolog) 3 (<i>S. cerevisiae</i>) (SIRT3), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name SIRT3 sirtuin 3 [Homo sapiens]

Official Symbol SIRT3

Synonyms SIRT3; sirtuin 3; sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae) , sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 3; NAD-dependent deacetylase sirtuin-3, mitochondrial; SIR2L3; sir2-like 3; sirtuin type 3; SIR2-like protein 3; silent mating type information regulation 2, S.cerevisiae, homolog 3; mitochondrial nicotinamide adenine dinucleotide-dependent deacetylase;

Gene ID 23410

mRNA Refseq NM_012239

Protein Refseq NP_036371

MIM 604481

UniProt ID Q9NTG7

Chromosome Location 11p15.5

Pathway Energy Metabolism, organism-specific biosystem; Signaling events mediated by

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HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC
Class III, organism-specific biosystem;

Function

NOT NAD⁺ ADP-ribosyltransferase activity; NAD⁺ binding; hydrolase activity;
hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides;
metal ion binding; protein binding; zinc ion binding;

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