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+1 484.791.3823

Datasheet for 009-001-T33S

# SIRT3 protein-GST fusion

## Overview

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| **Description:** | SIRT3 recombinant protein-GST fusion protein - 009-001-T33S |
| **Item No.:** | 009-001-T33S |
| **Size:** | 20 µg |
| **Origin:** | Human |
| **Expressed in:** | E. coli |

## Product Details

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| **Background:** | SIRT3 is a member of the sirtuin family of proteins which are homologs to the yeast Sir2 protein. Sirtuin family contain a sirtuin core domain and are grouped into four classes with SIRT3 being a member of class I. SIRT3 contains an N-terminal mitochondrial targeting signal and a central catalytic domain and localizes in the nuclei and mitochondria (1). SIRT3 has NAD(+)-dependent histone deacetylase activity with specificity for lys16 of H4 and, to a lesser extent, lys9 of H3. SIRT3 can repress transcription of a target gene in vivo when recruited to its promoter. Full-length SIRT3 is transported from the nucleus to the mitochondria during cell stress conditions (2). SIRT3 Protein is ideal for investigators involved in Signaling Proteins, Deacetylase/Demethylase Proteins, Cancer, Cell Cycle, and Inflammation research. |
| **Synonyms:** | SIR2L3, Sirtuin 3,NAD-dependent protein deacetylase sirtuin-3, mitochondrial, hSIRT3, Regulatory protein SIR2 homolog 3, SIR2-like protein 3, SIRT3, SIR2L3 |
| **Species of Origin:** | Human |
| **Expressed in:** | E. coli |
| **Type:** | Recombinant Protein |

## Target Details

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| **Gene Name:** | SIRT3 |
| **Purity/Specificity:** | Full-length recombinant human SIRT3 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >75% by densitometry. |
| **Relevant Links:** | • NCBI - NM_012239 |

## Application Details

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| **Application Note:** | SIRT3 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. SIRT3 Protein is suitable for use in Western Blot. Expect a band approximately ~66kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **WB:** | User Optimized |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 0.2 µg/µL |
| **Buffer:** | See application note. |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | 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. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

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+1 484.791.3823