

Datasheet for 009-001-T34S**SIRT4 protein-GST fusion****Overview**

Description:	SIRT4 recombinant protein-GST fusion protein - 009-001-T34S
Item No.:	009-001-T34S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	SIRT4 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 SIRT4 being a member of class IV. SIRT4 lacks deacetylase activity but has ADP-ribosyltransferase activity (1). Immunoprecipitation analysis shows that SIRT4 interacts with the mitochondrial enzyme glutamate dehydrogenase (GDH), and functional analysis show that SIRT4 ADP-ribosylates and inhibits GDH (2). Downregulation of SIRT4 by RNA interference activates GDH, thereby upregulating insulin secretion in response to glucose and amino acids. SIRT4 Protein is ideal for investigators involved in Signaling Proteins, Deacetylase/Demethylase Proteins, Cancer, Cell Cycle, and Inflammation research.
Synonyms:	IR2L4, MGC57437, MGC130046, MGC130047, sirtuin 4, NAD-dependent protein deacetylase sirtuin-4, NAD-dependent ADP-ribosyltransferase sirtuin-4, Regulatory protein SIR2 homolog 4, SIR2-like protein 4, SIRT4, SIR2L4
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	SIRT4
Purity/Specificity:	Full-length recombinant human SIRT4 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry.
Relevant Links:	• NCBI - NM_012240

Application Details

Application Note:	SIRT4 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. SIRT4 Protein is suitable for use in Western Blot. Expect a band approximately ~62kDa 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

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

Shipping & Handling

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.

