

Recombinant Full Length Human Sirtuin 4, GST-tagged

Cat. No. SIRT4-4879H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human SIRT4 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	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. Immunoprecipitation analysis shows that SIRT4 interacts with the mitochondrial enzyme glutamate dehydrogenase, and functional analysis show that SIRT4 ADP-ribosylates and inhibits GDH.
Applications	Western Blot
Molecular Weight	62 kDa
Expression System	E. coli
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.
Purity	> 70 %

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Concentration	0.2 ug/ul
Sequences	Full-length
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

GENE INFORMATION

Gene Name	SIRT4 sirtuin 4 [Homo sapiens]
Official Symbol	SIRT4
Synonyms	SIRT4; sirtuin 4; SIR2L4; MGC57437; MGC130046; MGC130047; NAD-dependent ADP-ribosyltransferase sirtuin-4; sir2-like 4; sirtuin type 4; OTTHUMP00000239957; SIR2-like protein 4; sirtuin (silent mating type information regulation 2 homolog) 4 (S. cerevisiae); sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 4
Gene ID	23409
mRNA Refseq	NM_012240
Protein Refseq	NP_036372
MIM	604482
UniProt ID	Q9Y6E7

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Chromosome Location	12q24.31
Function	NAD binding; NAD+ ADP-ribosyltransferase activity; NAD-dependent protein deacetylase activity; hydrolase activity; metal ion binding; protein binding; transferase activity; zinc ion binding

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