

Recombinant Human SIRT4

Cat. No. SIRT4-30846TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SIRT4 with an N terminal proprietary tag; predicted MWt 62 kDa inclusive of tag;
Species	Human
Source	E.coli
ProteinLength	314 amino acids
Description	This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class IV of the sirtuin family.
Molecular Weight	62.000kDa inclusive of tags
Tissue specificity	Detected in vascular smooth muscle and striated muscle. Detected in insulin-producing beta-cells in pancreas islets of Langerhans (at protein level). Widely expressed. Weakly expressed in leukocytes and fetal thymus.
Form	Liquid

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Purity	by SDS-PAGE
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MKMSFALTFRSAKGRWIANPSQPCSKASIGLFVPASPPLDPEKVKELQRFITLSKRLL VMTGAGISTESGIPDYRSEKVGLYARTDRRPIQHGDVFVSAPIRQRYWARNFVGWP QFSSHQPNPAHWALSTWEKLGKLYWLVLTQNVDAHHTKAGSRRLTELHGCM DRVLC LDCGEQTPRGVLQERFQVLNPTWSAEAHGLAPDGDVFLSEEQVRSFQVPTCVQCG GHLKPDVVFFGDTVNPDKVDFVHKRVKEADSLLVGSSLQVYSGYRFILTAWEKKLP IALNIGPTRSDDLACLKLN SRCGELLPLIDPC
Sequence Similarities	Belongs to the sirtuin family. Contains 1 deacetylase sirtuin-type domain.

GENE INFORMATION

Gene Name	SIRT4 sirtuin 4 [Homo sapiens]
Official Symbol	SIRT4
Synonyms	SIRT4; sirtuin 4; sirtuin (silent mating type information regulation 2 homolog) 4 (S. cerevisiae) , sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 4; NAD-dependent ADP-ribosyltransferase sirtuin-4; SIR2L4;
Gene ID	23409
mRNA Refseq	NM_012240

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Protein Refseq	NP_036372
MIM	604482
Uniprot ID	Q9Y6E7
Chromosome Location	12q24.31
Pathway	Signaling events mediated by HDAC Class I, organism-specific biosystem;
Function	NAD+ ADP-ribosyltransferase activity; NAD+ ADP-ribosyltransferase activity; NAD+ binding; NOT NAD-dependent protein deacetylase activity; metal ion binding;

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