

Recombinant Human SIRT4

Cat. No. SIRT4-30844TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 25-314 of Human SIRT4, with N-terminal proprietary tag, 59 kDa.
Species	Human
Source	E.coli
ProteinLength	25-314 a.a.
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.
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
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.05% Tween 20, 25mM Tris HCl, 100mM Sodium chloride, pH 8
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
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
Protein Refseq	NP_036372
MIM	604482
Uniprot ID	Q9Y6E7
Chromosome Location	12q24.31
Pathway	Signaling events mediated by HDAC Class I, organism-specific biosystem;

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Function

NAD⁺ ADP-ribosyltransferase activity; NAD⁺ ADP-ribosyltransferase activity; NAD⁺ binding; NOT NAD-dependent protein deacetylase activity; metal ion binding;

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