

Recombinant Human SIRT2, His-tagged

Cat. No. SIRT2-30567TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 50-356 of Human SIRT2, with C-terminal His tag, 35.5 kDa.
Species	Human
Source	E.coli
ProteinLength	50-356 a.a.
Description	<p>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 I of the sirtuin family. Several transcript variants are resulted from alternative splicing of this gene.</p>
Conjugation	HIS
Tissue specificity	Widely expressed. Highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulatio

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Biological activity	Specific Activity: 1.4 U/μg. One U =1 pmol/min.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 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	SIRT2 sirtuin 2 [Homo sapiens]
Official Symbol	SIRT2
Synonyms	SIRT2; sirtuin 2; SIR2L, sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae) , sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 2; NAD-dependent deacetylase sirtuin-2;
Gene ID	22933
mRNA Refseq	NM_001193286
Protein Refseq	NP_001180215
MIM	604480

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Uniprot ID	Q8IXJ6
Chromosome Location	19q13
Pathway	Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class III, organism-specific biosystem;
Function	NOT NAD+ ADP-ribosyltransferase activity; NAD+ binding; NAD-dependent histone deacetylase activity; histone acetyltransferase binding; histone deacetylase binding;

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