Recombinant Human SIRT7, His-tagged

Cat. No. SIRT7-30867TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SIRT7 with N terminal His tag; MWt 46 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	400 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.
Conjugation	HIS
Molecular Weight	46.000kDa inclusive of tags
Biological activity	The Specific activity of SIRT7-30867TH was determined to be 140 RLU/min/ng.
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: 150mM ImidazoleConstituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the sirtuin family.Contains 1 deacetylase sirtuin-type domain.

GENE INFORMATION

Gene Name	SIRT7 sirtuin 7 [Homo sapiens]
Official Symbol	SIRT7
Synonyms	SIRT7; sirtuin 7; sirtuin (silent mating type information regulation 2 homolog) 7 (S. cerevisiae) , sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 7; NAD-dependent deacetylase sirtuin-7;
Gene ID	51547
mRNA Refseq	NM_016538
Protein Refseq	NP_057622
MIM	606212
Uniprot ID	Q9NRC8
Chromosome	17q25.3

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Location	
Pathway	Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class III, organism-specific biosystem;
Function	NAD+ binding; hydrolase activity; metal ion binding; protein binding; zinc ion binding;

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