

# Recombinant Human SIRT7, His-tagged

**Cat. No.** SIRT7-585H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Full length (2-400aa) recombinant Human SIRT7 expressed in <i>E.coli</i> N-terminal was fused to his-tagged SIRT7. MW = 49.3 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | <i>E.coli</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Length</b>   | 2-400 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | The sirtuins represent a distinct class of trichostatin A-insensitive lysyl-deacetylases (class III HDACs) and have been shown to catalyze a reaction that couples lysine deacetylation to the formation of nicotinamide and O-acetyl-ADP-ribose from NAD <sup>+</sup> and the abstracted acetyl group. There are seven human sirtuins, which have been designated SIRT1-SIRT7. Recently, SIRT7 has been shown to activate transcription of RNA polymerase I and deacetylate p53. SIRT7 prevents progressive functional deterioration of the heart, and is suggested to play an important role in regulation of stress responses and cell death in the heart. |
| <b>Purity</b>           | ≥85%.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Formulation</b>      | 50 mM sodium phosphate, pH 7.2, containing 100 mM sodium chloride, 5 mM DTT, and 20% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Stability</b>        | ≥6 months at -80°C; avoid freeze/thaw cycles by aliquoting the protein and storing at -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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**Full Length**
**Full L.**

## GENE INFORMATION

**Gene Name**

SIRT7 sirtuin (silent mating type information regulation 2 homolog) 7 (S. cerevisiae) [ Homo sapiens ]

**Synonyms**

SIRT7; sirtuin (silent mating type information regulation 2 homolog) 7 (S. cerevisiae); SIR2L7; MGC126840; MGC126842; NAD-dependent deacetylase sirtuin-7; sirtuin type 7; SIR2-like protein 7; sir2-related protein type 7; silent mating type information regulation 2, S.cerevisiae, homolog 7; EC 3.5.1.-; sirtuin 7

**Gene ID**

51547

**mRNA Refseq**

NM\_016538

**Protein Refseq**

NP\_057622

**MIM**

606212

**UniProt ID**

Q9NRC8

**Chromosome Location**

17q25

**Function**

NAD binding; hydrolase activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides; metal ion binding; protein binding; zinc ion binding

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