

Recombinant Human SIRT7, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	2-400 a.a.
Description	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 ⁺ 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.
Purity	≥85%.
Formulation	50 mM sodium phosphate, pH 7.2, containing 100 mM sodium chloride, 5 mM DTT, and 20% glycerol.
Stability	≥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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