

Recombinant Human SIRT7, Flag-tagged

Cat. No. SIRT7-12H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIRT7, fused with C-terminal Flag tag, was expressed in an E. coli cell expression system.
Species	Human
Source	E.coli
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.
Form	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl and 10% glycerol.
Molecular Mass	46 kDa
Purity	≥60%
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Stability	>6 months at –80°C

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GENE INFORMATION

Gene Name	SIRT7 sirtuin 7 [Homo sapiens (human)]
Official Symbol	SIRT7
Synonyms	SIRT7; SIR2L7; sirtuin 7; NAD-dependent protein deacetylase sirtuin-7; sirtuin type 7; SIR2-like protein 7; sir2-related protein type 7; regulatory protein SIR2 homolog 7; NAD-dependent deacetylase sirtuin-7; silent mating type information regulation 2, S.cerevisiae, homolog 7; NP_057622.1; EC 3.5.1.-
Gene ID	51547
mRNA Refseq	NM_016538
Protein Refseq	NP_057622
MIM	606212
UniProt ID	Q9NRC8
Chromosome Location	17q25
Pathway	Signaling events mediated by HDAC Class I; Signaling events mediated by HDAC Class III
Function	NAD ⁺ binding; NAD-dependent histone deacetylase activity (H3-K18 specific); chromatin binding

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