

Active Recombinant Full Length Human Sirtuin 7, His-tagged

Cat. No. SIRT7-4884H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human SIRT7 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
Description	SIRT7 is a member of the class IV of sirtuin family of proteins which are homologs to the yeast Sir2 protein and play a role in cell differentiation, proliferation, apoptosis, metabolism, and senescence. SIRT7 associates with active rRNA genes and histones. Overexpression of SIRT7 increases pol I-mediated transcription whereas knockdown of SIRT7 or inhibition of its catalytic activity results in decreased association of pol I with rDNA and reduced pol I transcription.
Applications	SIRT Assay
Molecular Weight	46 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.
Specific Activity	140 RLU/min/mg

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	Full length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Signaling events mediated by HDAC Class I; Signaling events mediated by HDAC Class III

GENE INFORMATION

Gene Name	SIRT7 sirtuin 7 [Homo sapiens]
Official Symbol	SIRT7
Synonyms	SIRT7; sirtuin 7; 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 (silent mating type information regulation 2 homolog) 7 (S. cerevisiae); sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 7
Gene ID	51547
mRNA Refseq	NM_016538
Protein Refseq	NP_057622

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MIM	606212
UniProt ID	Q9NRC8
Chromosome Location	17q25.3
Function	NAD binding; hydrolase activity; metal ion binding; protein binding; zinc ion binding

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