

# Product information



## SIRT1, 254-495aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2625

**Full name:** Sirtuin 1

**NCBI Accession No.:** NP\_036370

**Synonyms:** Sirtuin (silent mating type information regulation 2 homolog) 1 (*S. cerevisiae*), SIR2L1

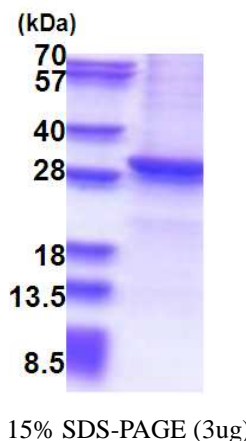
**Description:** SIRT1 is a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins 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. Alternative splicing results in multiple transcript variants. Recombinant human SIRT1 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing  
10% glycerol, 0.4M Urea

**Molecular Weight:** 31.6 kDa (280 aa)

**Purity:** > 90 % by SDS - PAGE

**Concentration:** 0.5 mg/ml (determined by Bradford assay)



### Sequences of amino acids:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMMKK IIVLTGAGVS VSCGIPDFRS RDGIYARLAV DFPDLPDPQA MFDIEYFRKD  
PRPFFKFAKE IYPGQFQPSL CHKFIALSDK EGKLLRNYTQ NIDTLEQVAG IQRIIQCHGS FATASCLICK YKVDCEAVRG DIFNQVVRPC  
PRCPADEPLA IMKPEIVFFG ENLPEQFHRA MKYDKDEVDL LIVIGSSLKV RPVALIPSSI PHEVPQILIN REPLPHLHFD VELLGDCDVI  
INELCHRLGG

### General references:

Langley E., *et al.* (2002) *EMBO J.* 21:2383-2396.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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