

Recombinant human SIRT5, His-tagged

Cat. No. SIRT5-2434H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SIRT5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	34-310 a.a.
Description	SIRT5 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. The protein encoded by this gene is included in class III of the sirtuin family. Alternative splicing of this gene results in multiple transcript variants
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	32.5kDa (300aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSARPSSSM ADFRKFFAKA KHIVIISGAG VSAESGVPTF RGAGGYWRKW QAQDLATPLA FAHNPSRVWEFYHYRREVMG

 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

SKEPNAGHRA IAECETRLGK QGRRVVITQ NIDELHRKAG TKNLLEIHGS
 LFKTRCTSCG VVAENYKSPI CPALSGKGAP EPGTQDASIP VEKLPRCEEA
 GCGGLLRPHV VWFGENLDPA ILEEVDPRELA HCDLCLVVGT SSVVYPAAMF
 APQVAARGVP VAEFNTETTP ATNRFRHFHQ GPCGTTLPEA LACHENETVS

Purity >90% by SDS - PAGE

Applications SDS-PAGE

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

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [SIRT5 sirtuin 5 \[Homo sapiens \]](#)

Official Symbol SIRT5

Synonyms SIRT5; sirtuin 5; sirtuin (silent mating type information regulation 2 homolog) 5 (S. cerevisiae) , sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 5; NAD-dependent lysine demalonylase and desuccinylase sirtuin-5, mitochondrial; sir2-like 5; sirtuin type 5; SIR2-like protein 5; NAD-dependent deacetylase sirtuin-5; silent mating type information regulation 2, S.cerevisiae, homolog 5; SIR2L5; FLJ36950;

Gene ID [23408](#)

mRNA Refseq [NM_001193267](#)

 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

Protein Refseq	NP_001180196
MIM	604483
UniProt ID	Q9NXA8
Chromosome Location	6p23
Pathway	Signaling events mediated by HDAC Class I, organism-specific biosystem;
Function	NOT NAD ⁺ ADP-ribosyltransferase activity; NAD ⁺ binding; hydrolase activity; metal ion binding; protein-malonyllysine demalonylase activity; protein-succinyllysine desuccinylase activity; zinc ion binding;

 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