

Recombinant human Sirtuin 5/SIRT5 protein

Catalog Number: ATGP2434

PRODUCT INFORMATION

Expression system

E.coli

Domain

34-310aa

UniProt No.

Q9NXA8

NCBI Accession No.

NP_036373.1

Alternative Names

NAD-dependent protein deacylase sirtuin-5 mitochondrial, Regulatory protein SIR2 homolog 5, SIR2-like protein 5, SIR2L5

PRODUCT SPECIFICATION

Molecular Weight

32.5 kDa (300aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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class III of the sirtuin family. Alternative splicing of this gene results in multiple transcript variants. Recombinant human SIRT5 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>ARPSSTM ADFRKFFAKA KHIVIISGAG VSAESGVPTF RGAGGYWRKW
QAQDLATPLA FAHNPSRVWE FYHYRREVMG SKEPNAGHRA IAECETRLGK QGRRVVITQ NIDELHRKAG TKNLLEIHGS
LFKTRCTSCG VVAENYKSPI CPALSGKGAP EPGTQDASIP VEKLPRCEEA GCGLLRPHV VWFGENLDPA ILEEVDRELA
HCDLCLVVG TSSVYPAAMF APQVAARGVP VAEFNTETTP ATNRFRFHFQ GPCGTTLPEA LACHENETVS

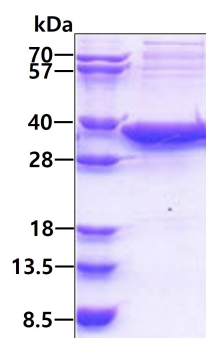
General References

Zhou, Y., et al. (2012) *J. Biol. Chem.* 287 (34), 28307-28314

Fischer, F., et al. (2012) *PLoS ONE* 7 (9), E45098

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.