

AR51254PU-N**Human SIRT5 (34-310, His-tag) - Purified****Alternate names:**

NAD-dependent deacetylase sirtuin-5, SIR2-like protein 5, SIR2L5, SIRT-5, sirtuin (silent mating type information regulation 2 homolog) 5 (*S. cerevisiae*), sirtuin 5, sirtuin type 5, sirtuin-5

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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

Uniprot ID:

[Q9NXA8](#)

NCBI:

[NP_036373](#)

GeneID:

[23408](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

Description:

Recombinant human SIRT5 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSARPSSSM ADFRKFKA KHIVISGAG VSAESGVPTF
RGAGGYWRKW QAQDLATPLA FAHNPSRVWE FYHYRREVMG SKEPNAGHRA IAECETRLGK
QGRRVVVITQ NIDELHRKAG TKNLLEIHGS LFKTRCTSCG VVAENYKSPI CPALSGKGAP
EPGTQDASIP VEKLPCEEA GCGLLRPHV VWFGENLDP A ILEEVRELA HCDLCLVVG
SSVVYPAAMF APQVAARGVP VAEFNTETTP ATNRFHFHQ GPCGTTLPEA LACHENETVS

Molecular weight: 32.5 kDa (300aa) confirmed by MALDI-TOF

Storage:

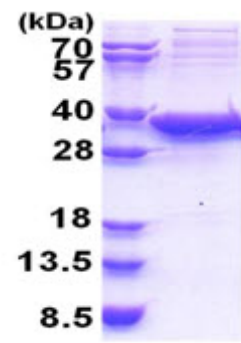
Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

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

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

Pictures:



15% SDS-PAGE (3ug)