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AR51254PU-S 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: 0.1 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

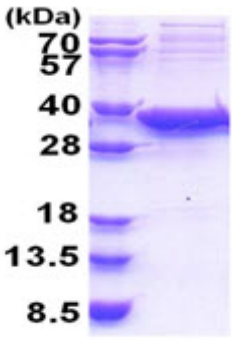
Format: **State:** Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

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 ADFRKFFAKA KHIVIISGAG VSAESGVPTF
RGAGGYWRKW QAQDLATPLA FAHNPSRVWE FYHYRREVMG SKEPNAGHRA IAECETRLGK
QGRRVVVITQ NIDELHRKAG TKNLLEIHGS LFKTRCTSCG VVAENYKSPI CPALSGKGAP
EPGTQDASIP VEKLPRCEEA GCGGLLRPHV VWFGENLDPA ILEEVDRELA HCDLCLVVGT
SSVVYPAAMF APQVAARGVP VAEFNTETTP ATNRFRFHFQ 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)