Recombinant human Sirtuin 2/SIRT2 protein

Catalog Number: ATGP0803

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-352aa

UniProt No.
Q8IXJ6

NCBI Accession No.
NP_085096

Alternative Names
NAD-dependent protein deacetylase sirtuin-2, NAD-dependent protein defatty-acylase sirtuin-2, Regulatory protein SIR2 homolog 2, SIR2-like protein 2, SIR2L, SIR2L2, Sirtuin, Silent mating type information regulation 2 homolog 2 (S. cerevisiae) cerevisiae)

PRODUCT SPECIFICATION

Molecular Weight
41.6 kDa (372aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 2mM DTT, 200mM NaCl, 0.5mM EDTA

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
SIRT2 (NAD-dependent deacetylase sirtuin-2) 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 and are involved in diverse processes, including transcriptional regulation, cell cycle progression, DNA-damage repair and aging. SIRT2 is a NAD-dependent deacetylase, which deacetylates the 'Lys-40' of alpha-

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tubulin. Recombinant human SIRT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

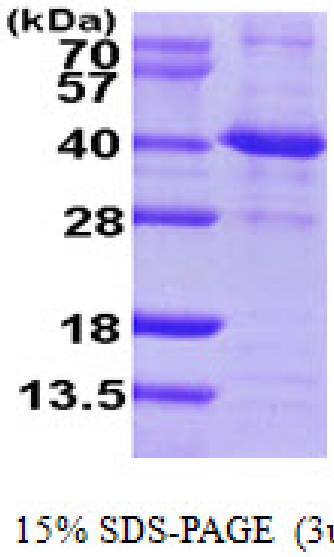
<MGSSHHHHHH SSGLVPRGSH> MDFLRNLFSQ TLSLGSQKER LLDELTLEGV ARYMQSERCR RVICLVGAGI STSAGIPDFR SPSTGLYDNL EKYHLPYPEA IFEISYFKKH PEPFFALAKE LYPGQFKPTI CHYFMRLLKD KGLLLRCYTQ NIDTLERIAG LEQEDLVEAH GTFYTSHCVS ASCRHEYPLS WMKEKIFSEV TPKCEDCQSL VKPDIVFFGE SLPARFFSCM QSDFLKVDLL LVMGTSLQVQ PFASLISKAP LSTPRLLINK EKAGQSDPFL GMIMGLGGGM DFDSKKAYRD VAWLGECDQG CLALAELLGW KKELEDLVRR EHASIDAQSG AGVPNPSTSA SPKKSPPPAK DEARTTEREK PQ

General References

North B.J., et al. (2003) Mol. Cell 11:437-444
Dryden S.C., et al. (2003) Mol. Cell. Biol. 23:3173-3185

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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