

AR09588PU-N

Human SIRT3 (118-399, His-tag) - Purified

Alternate names:

NAD-dependent deacetylase sirtuin-3 mitochondrial, SIR2-like protein 3, SIR2L3, SIRT-3, hSIRT3, sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae), sirtuin 3, sirtuin type 3, sirtuin-3

Quantity:

50 µg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

NAD-dependent deacetylase sirtuin-3, mitochondrial, also known as SIRT3, belongs to the sirtuin family of proteins. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have a range of molecular functions and have emerged as important proteins in aging, stress resistance and metabolic regulation. SIRT3 exhibits NAD⁺-dependent deacetylase activity in the mitochondria. Over-expression of SIRT3 results in increased levels of the mitochondrial uncoupling protein 1. SIRT3 protein levels are also elevated in certain breast cancers.

Uniprot ID:

[Q9NTGZ](#)

NCBI:

[NP_001017524](#)

GenelD:

[23410](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.1 M NaCl

Description:

Recombinant human SIRT3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MSDKGKLSLQ DVAELIRARA CQRVVMVGA GISTPSGIPD
FRSPGSGLYS NLQQYDLPYP EAIFELPFFF HNPKPFFTLA KELYPGNYKP NVTHYFLRL
HDKGLLLRLY TQNIDGLERV SGIPASKLVE AHGTFASATC TVCQRPFPGE DIRADVMADR
VPRCPVCTGV VKPDIVFFGE PLPQRFLLHV VDFPMADLLL ILGTSLEVEP FASL TEAVRS
SVPRLLINRD LVGPLAWHPR SRDVAQLGDV VHGVESLVEL LGWTEEMRDL VQRETGKLDG PDK

Molecular weight: 33.5 kDa (303aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

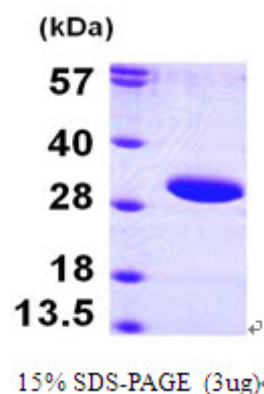
Shelf life: one year from despatch.

General Readings:

Schewr B., et al. (2002) J Cell Biol. 158(4):647-57.

Kim H S., et al. (2010) Cancer Cell. 17(1):41-52.

Pictures:



Recombinant human SIRT3, 118- 399 aa,
His-tagged

