

Recombinant Human SIRT2, His-tagged

Cat. No. SIRT2-929H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SIRT2 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 41.7kDa (372aa).
Species	Human
Source	E.coli
ProteinLength	1-352 aa
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-tubulin.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 2mM DTT, 200mM NaCl, 0.5mM EDTA.
Purity	> 90% by SDS - PAGE.
Concentration	0.25mg/ml (determined by Bradford assay).
Sequences Of Amino	MGSSHHHHHH SSGLVPRGSH MDFLRNLFSSQ TSLSGSQKER LLDELTLEGV ARY

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Acids

MQSERCR RVICLVGAGI STSAGIPDFR SPSTGLYDNL EKYHLPYPEA
 IFEISYFKKH PEPFFALAKE LYPGQFKPTI CHYFMRLKLD KGLLLRCYTQ
 NIDTLERIAG LEQE DLVEAH GTFYTSHCVSASCRHEYPLS WMKEKIFSEV
 TPKCEDCQSL VKPDI VF FGE SLPARFFSCM QSDFLKVDLL LVMGTSLQVQ
 PFASLISKAP LSTPRLLINK EK A GQ SDPFL GMIMGLGGGM DFDSKKAYRD
 VAWLGECDQG CLALAELLGW KKE LEDL VRR EHASIDAQSG AGVNPSTSA
 SPKKSPPPAK DEARTTEREK PQ.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

SIRT2 sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae) [Homo sapiens]

Synonyms

sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae); SIR2; SIR2L; SIR2L2; SIRT2; sirtuin 2; sirtuin type 2; sir2-related protein type 2; silent information regulator 2; silencing information regulator 2-like; EC 3.5.1.-; SIR2-like; SIR2-like protein 2; sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 2

Gene ID

22933

mRNA Refseq

NM_012237

Protein Refseq

NP_036369

MIM

604480

UniProt ID

Q8IXJ6

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**Chromosome
Location**

19q13

Function

NAD binding; NAD+ ADP-ribosyltransferase activity; NAD-dependent histone deacetylase activity; histone acetyltransferase binding; histone deacetylase binding; hydrolase activity; metal ion binding; transcription factor binding; tubulin deacetylase activity; ubiquitin binding; zinc ion binding

**PDB rendering based
on 1j8f.**

