

Recombinant Human SIRT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SIRT1-3080H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

SIRT1 MS Standard C13 and N15-labeled recombinant protein (NP_036370) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes 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 I of the sirtuin family. Alternative splicing results in multiple transcript variants.

Molecular Mass

81.5 kDa

AA Sequence

MADEAALALQPGGSPSAAGADREAASSPAGEPLRKRPRRDGPGGLERSPGEPGGAA
PEREVPAAARGCPGAAAAALWREAEAEAAAAGGEQEAQATAAAGEGDNGPGLQG
PSREPPLADNLYDEDDDDDEGEEEEAAAAAIGYRDNLLFGDEIITNGFHSCESEED
RASHASSDWTTPRPRIGPYTFVQQHLMIGTDPRTILKDLLPETIPPPPELDDMTLWQIVI
NILSEPPKRKKRKDINTIEDAVKLLQECKKIIVLTGAGVSVSCGIPDFRSRDGIYARLAV

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DFPDLDPQAMFDIEYFRKDPRPFFKFAKEIYPGQFQPSLCHKFIALSDKEGKLLRNY
 TQNIDTLEQVAGIQRIIQCHGSFATASCLICKYKVDCEAVRGDIFNQVVRPCRPCPAD
 EPLAIMKPEIVFFGENLPEQFHRAMKYDKDEVDLLIVIGSSSLKVRPVALIPSSIPHEVP
 QILINREPLPHLHFDVELLGDCDVIINELCHRLGGEYAKLCCNPVKLSEITEKPPRTQK
 ELAYLSELPTPLHVSEDSSSPERTSPPDSSVIVTLLDQAAKSNDLDVSESKGCME
 EKPQEVQTSRNVESIAEQMENPDLKNVGSSTGEKNERTSVAGTVRKCWPNRVAKE
 QISRRLDGNQYLFLPPNRYIFHGAEVYSDSEDDVLSSSSCGSNSDSGTCQSPSLEE
 PMEDESEIEEFYNGLEDEPDVPERAGGAGFGTGDGDDQEAINAISVKQEVTDMMNYP
 SNKSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [SIRT1 sirtuin 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [SIRT1](#)

Synonyms SIRT1; sirtuin 1; sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae), sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 1; NAD-dependent deacetylase sirtuin-1; SIR2L1; hSIR2; hSIRT1; SIR2alpha; sir2-like 1; sirtuin type 1; SIR2-like protein 1;

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Gene ID 23411

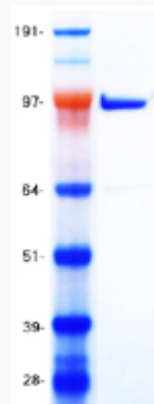
mRNA Refseq NM_012238

Protein Refseq NP_036370

MIM 604479

UniProt ID Q96EB6

SDS-PAGE



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