

Product datasheet for PH318134

SIRT1 (NM_012238) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | SIRT1 MS Standard C13 and N15-labeled recombinant protein (NP_036370) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC218134 |
| Predicted MW: | 81.5 kDa |
| Protein Sequence: | >RC218134 representing NM_012238 Red=Cloning site Green=Tags(s) |

MADEAALALQPGGSPAAGADREAASSPAGEPLRKRPRRDGPGLESPGEPGGAAPEREVPAARGCPGA
AAAALWREAEAEAAAAGGEQEAQATAAAGEGDNGPGLQGSPREPPLADNLYDEDDDEGESEEEEEAAAAAI
GYRDNLLFGDEIITNGFHSCESDEEDRASHASSDWTTPRPRIGPYTFVQQHLMIGTDPRTILKDLLPETI
PPPELDDMTLWQIVINILSEPPKRKRKRDINTIEDAVKLLQECKKIIVLTGAGVSVSCGIPDFRSRDGIY
ARLAVDFPDLDPQAMFDIEYFRKDPFPFFKFAKEIYPGQFQPSLCHKFIALSDKEGKLLRNYTQNIIDL
EQVAGIQRIIQCHGSFATASCLICKYKVDCEAVRGDIFNQVVPKPCPCPADEPLAIMKPEIVFFGENLPE
QFHRAKMYDKDEVDLLIVIGSSLKVRPVALIPSSIPHEVPQILINREPLPHLHFDVLLGDCDVIINELC
HRLGGEYAKLCCNPVKLSEITEKPPRTQKELAYLSELPTPLHVSEDSSSPERTSPPDSSVIVTLLDQAA
KSNDLLDVSESKGCMEKPEVQTSRNVESIAEQMENPDLKNGVSGSTGEKNERTSVAGTVRKCWPNRVAK
EQISRRLDGNQYLFLPPNRYIFHGAEVYSDSEDDVLSSSSCGSNSDSGTCQSPSLEEPMEDESEIEEFYN
GLEDEPDVPERAGGAGFGTDGDDQEAINEAISVKQEVTDMMNYPNSKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|------------------|--|
| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | <u>NP_036370</u> |



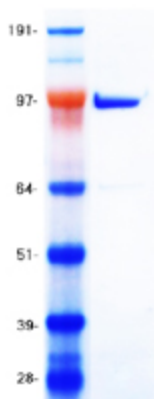
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| | |
|---------------|---|
| RefSeq Size: | 4107 |
| RefSeq ORF: | 2241 |
| Synonyms: | SIR2; SIR2alpha; SIR2L1 |
| Locus ID: | 23411 |
| UniProt ID: | Q96EB6 , A0A024QZQ1 |
| Cytogenetics: | 10q21.3 |

Summary: 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. [provided by RefSeq, Dec 2008]

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Product images:



Coomassie blue staining of purified SIRT1 protein (Cat# [TP318134]). The protein was produced from HEK293T cells transfected with SIRT1 cDNA clone (Cat# [RC218134]) using MegaTran 2.0 (Cat# [TT210002]).