

## Product datasheet for TP318134L

### SIRT1 (NM\_012238) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human sirtuin (silent mating type information regulation 2 homolog) 1 ( <i>S. cerevisiae</i> ) (SIRT1), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218134 representing NM_012238 Red=Cloning site Green=Tags(s)

MADEAALALQPGGSPAAGADREAASSPAGEPLRKRPRRDGPGGLERSPGEPGGAAPEREVPAARGCPGA  
AAAALWREAEEAAAAGGEQEAQATAAAGEGDNGPGLQGSPREPLADNLYDEDDDEEEEEAAAAAI  
GYRDNLLFGDEIITNGFHSCESDEEDRASHASSSDWTPRPRIGPYTFVQQHLMIGTDPRTILKDLLPETI  
PPPELDDMTLWQIVINILSEPPKRKRKRDINTIEDAVKLLQECKKIIVLTGAGVSVSCGIPDFRSRDIY  
ARLAVDFPDLDPQAMFDIEYFRKDRPFFKFAKEIYPGQFQPSLCHKFIALSDKEGKLLRNYTQNIDTL  
EQVAGIQRIIQCHGSFATASCLICKYKVDCEAVRGDIFNQVPRCPRCPADEPLAIMKPEIVFFGENLPE  
QFHAMKYDKDEVDLLIVIGSSLKVRPVALIPSSIPHEVPQILINREPLPHLHFDVELLGDGCDVIINELC  
HRLGGEYAKLCCNPVKLSEITEKPPRTQKELAYLSELPPTPLHVSEDSSSPERTSPPDSSVIVITLLDQAA  
KSNDDLDVSESKGCMEEKPQEVQTSRNVESIAEQMENPDLKNVGSSTGEKNERTSVAGTVRKCWPNRVAK  
EQISRRLDGNQYLFLPPNRYIFHGAEVYSDSEDDVLSSSSCGSNSDSGTCQSPSLEEPMEDESEIEEFYN  
GLEDEPDVPERAGGAGFGTDGDDQEAINEAISVKQEVTDMMNYPNSKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

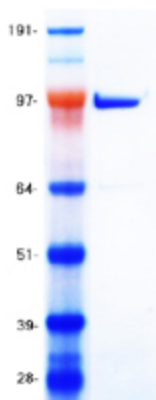
Tag:	C-Myc/DDK
Predicted MW:	81.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_036370</a>
<b>Locus ID:</b>	23411
<b>UniProt ID:</b>	<a href="#">Q96EB6</a> , <a href="#">A0A024QZQ1</a>
<b>RefSeq Size:</b>	4107
<b>Cytogenetics:</b>	10q21.3
<b>RefSeq ORF:</b>	2241
<b>Synonyms:</b>	SIR2; SIR2alpha; SIR2L1
<b>Summary:</b>	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]
<b>Protein Families:</b>	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]).