



Recombinant Human NAD-dependent protein deacetylase sirtuin-1 (SIRT1)

Product Code	CSB-EP822202HU-B
Abbreviation	SIRT1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q96EB6
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	ADEAALALQ PGGSPSAAGA DREAASSPAG EPLRKRPRRD GPGLEKSPGE PGGAAPEREV PAAARGCPGA AAAALWREAE AEAAAAGGEQ EAQATAAAGE GDNGPGLQGP SREPPLADNL YDEDDDEGE EEEEEAAAAI GYRDNLLFGD EIITNGFHSC ESDEEDRASH ASSSDWTPRP RIGPYTFVQQ HLMIGTDPRT ILKDLLPETI PPELDDMTL WQIVINILSE PPKRKKRDI NTIEDAVKLL QECKKIIVLT GAGVSVSCGI PDFRSRDIY ARLAVDFPDL PDPQAMFDIE YFRKDPRPFF KFAKEIYPGQ FQPSLCHKFI ALSDKEGKLL RNYTQNIDTL EQVAGIQR II QCHGSFATAS CLICKYKVC EAVRGDIFNQ VVPRCPRCPA DEPLAIMKPE IVFFGENLPE QFHRAMKYDK DEVDLLVIG SSLKVRPVAL IPSSIPHEVP QILINREPLP HLHFDVELLG DCDVIINELC HRLGGYAKL CCNPVKLSEI TEKPPRTQKE LAYLSELPPT PLHVSEDSSS PERTSPPDSS VIVTLLDQAA KSNDDLDVSE SKGCMEEKPQ EVQTSRNVES IAEQMENPDL KNVGSSTGEK NERTSVAGTV RKCWPNRVAK EQISRRLDGN QYLFLPPNRY IFHGAEVYSD SEDDLVSSSS CGSNSDSGTC QSPSLEEPME DESEIEEFYN GLEDEPDVPE RAGGAGFGTD GDDQEAINEA ISVKQEV TDM NYPSNKS
Source	E.coli
Target Names	SIRT1
Protein Names	Recommended name: NAD-dependent protein deacetylase sirtuin-1 Short name= hSIRT1 EC= 3.5.1.- Alternative name(s): Regulatory protein SIR2 homolog 1 SIR2-like protein 1 Short name= hSIR2 Cleaved into the following chain:
Expression Region	2-747
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein



Target Details

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. This protein is included in class I of the sirtuin family. Alternative splicing results in multiple transcript variants.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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