



Recombinant Mouse NAD-dependent protein deacetylase sirtuin-1 (Sirt1)

| | |
|--------------------------|---|
| Product Code | CSB-EP846058MO-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. | Q923E4 |
| Product Type | Recombinant Protein |
| Immunogen Species | Mus musculus (Mouse) |
| Purity | >85% (SDS-PAGE) |
| Sequence | ADEVALALQ AAGSPSAAAA MEAASQPADE PLRKRPRRDG PGLGRSPGEP SAAVAPAAAG CEAASAAAPA ALWREAAGAA ASAEREAPAT AVAGDGDNGS GLRREPRAAD DFDDDEGEEE DEAAAAAAAAA AIGYRDNLLL TDGLLTNGFH SCESDDDDRT SHASSSDWTP RPRIGPYTFV QQHLMIGTDP RTILKDLLPE TIPPELDDM TLWQIVINIL SEPPKRKKRK DINTIEDAVK LLQECKKIIV LTGAGVSVSC GIPDFRSRDG IYARLAVDFP DLPDPQAMFD IEYFRKDPRP FFKFAKEIYP GQFQPSLCHK FIALSDKEGK LLRNYTQNIID TLEQVAGIQR ILQCHGSFAT ASCLICKYKV DCEAVRGDIF NQVVPRCPRC PADEPLAIMK PEIVFFGENL PEQFHRAKMY DKDEVDLLIV IGSSLKVRPV ALIPSSIPHE VPQILINREP LPHLHFDVEL LGDCDVIINE LCHRLGGEYA KLCCNPVKLS EITEKPPRPQ KELVHSELPTPLHISEDSSPERTVPOD SSVIATLVDQ ATNNNVNDLE VSESSCVEEK PQEVQTSRNV ENINVENPDF KAVGSSTADK NERTSVAETV RKCWPNRLAK EQISKRLEGN QYLFVPPNRY IFHGAEVYSD SEDDVLSSSS CGSNSDSGTC QSPSLEEPLD DESEIEEFYN GLEDDTERPE CAGGSGFGAD GGDQEVVNEA IATRQELTDV NYPSDKS |
| Source | E.coli |
| Target Names | Sirt1 |
| Protein Names | Recommended name: NAD-dependent protein deacetylase sirtuin-1 EC= 3.5.1.- Alternative name(s): Regulatory protein SIR2 homolog 1 SIR2-like protein 1 SIR2alpha Short name= Sir2 Short name= mSIR2a Cleaved into the follow |
| Expression Region | 2-737 |
| 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

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.