



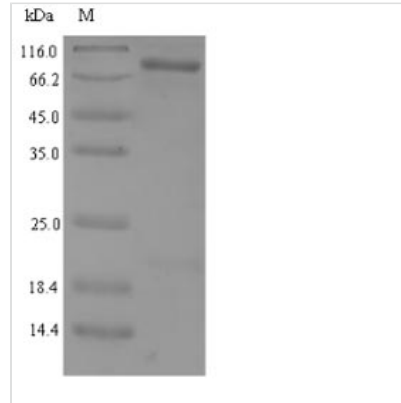
Recombinant Human NAD-dependent protein deacetylase sirtuin-1 (SIRT1)

Product Code	CSB-EP822202HU
Relevance	Inhibited by nicotinamide. Activated by resveratrol (3,5,4'-trihydroxy-trans-stilbene), butein (3,4,2',4'-tetrahydroxychalcone), piceatannol (3,5,3',4'-tetrahydroxy-trans-stilbene), Isoliquiritigenin (4,2',4'-trihydroxychalcone), fisetin (3,7,3',4'-tetrahydroxyflavone) and quercetin (3,5,7,3',4'-pentahydroxyflavone). MAPK8/JNK1 and RPS19BP1/AROS act as positive regulators of deacetylation activity. Negatively regulated by CCAR2.
Abbreviation	Recombinant Human SIRT1 protein
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
Alias	Regulatory protein SIR2 homolog 1 SIR2-like protein 1 Short name: hSIR2 Cleaved into the following chain: SirtT1 75 kDa fragment Short name: 75SirT1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	ADEAALALQPGGSPSAAGADREAASSPAGEPLRKRPRRDGPGGLERSPGEPG GAAPEREVPAARGCPGAAAAALWREAEEAAAAGGEQEAQATAAAGEGDN GGLQGPSREPLADNLYDEDDDDGEEEEEEAAAAGIYRDNLLFGDEIITNG FHSCESDEEDRASHASSSDWTPRPRIGPYTFVQQHLMIGTDPRTILKDLLPETI PPPELDDMTLWQIVINILSEPPKRRKRKDINTIEDAVKLLQECKKIIVLTGAGVSV SCGIPDFRSRDGIYARLAVDFPDLDPQAMFDIEYFRKDPRPFFKFAKEIYPGQ FQPSLCHKFIALSDKEGKLLRNYTQNIIDTLEQVAGIQRIIQCHGSFATASCLICKY KVDCEAVRGDIFNQVVPRCPRCPADEPLAIMKPEIVFFGENLPEQFHRAMKYD KDEVLLLIVIGSSLKVRPVALIPSSIPHEVPQILINREPLPHLHFDVELLGDVVIIN ELCHRLGGGEYAKLCCNPVKLSEITEKPPRTQKELAYLSELPTPLHVSEDSSSP ERTSPPDSSVIVTLLDQAAKSNDDLDVSESKGCMEEKPQEVQTSRNVESIAEQ MENPDLKNVGSSTGEKNERTSVAGTVRKCWPNRVAKEQISRRLDGNQYLFLP PNRYIFHGAEVYSDSEDDVLSSSSCGSNSDSGTCQSPSLEEPMEDESEIEEFY NGLEDEPDVPERAGGAGFGTDGDDQEAINAISVKQEVTDMMNYPNSKS
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	SIRT1
Expression Region	2-747aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

Tag Info	N-terminal 6xHis-tagged
Mol. Weight	85.5kDa
Protein Length	Full Length of Mature Protein

Image

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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.