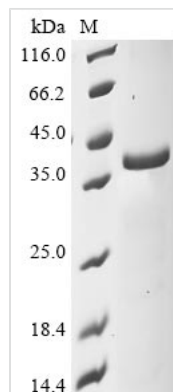




Recombinant Mouse NAD-dependent protein deacylase sirtuin-5, mitochondrial (Sirt5)

Product Code	CSB-EP814306MO
Abbreviation	Recombinant Mouse Sirt5 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.	Q8K2C6
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	SSNMADFRKCFANAKHIAISGAGVSAESGVPTFRGAGGYWRKWQAQDLATP QAFARNPSQVWEFYHYRREVMRSKEPNPGHLAIAQCEARLRDQGRRVVVITQ NIDELHRKAGTKNLLEIHGTLFKTRCTSCGTVAENYRSPICPALAGKGAPET QDARIPVDKLPREEAGCGLLRPHVWVWFGENLDPAILLEEVDRELALCDLCLV VGTSSVVYPAAAMFAPQVASRGVPVAEFNMETTPATDRFRFHFPGPCGKTLPE ALAPHETERTS
Research Area	others
Source	E.coli
Target Names	Sirt5
Expression Region	37–310aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	37.6 kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

Amino acids 37–310 constitute the expression domain of recombinant Mouse Sirt5. This Sirt5 protein is expected to have a theoretical molecular weight of 37.6 kDa. This Sirt5 protein is produced using e.coli expression system. The Sirt5 gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant Sirt5 protein during the following stages.

The mouse NAD-dependent protein deacylase sirtuin-5, mitochondrial (Sirt5) is an enzyme belonging to the sirtuin family. Sirtuins are involved in various cellular processes, including metabolism, aging, and stress response. Specifically localized in the mitochondria, Sirt5 plays a role in regulating protein post-translational modifications, including desuccinylation, demalonylation, and deglutarylation. By deacylating target proteins, Sirt5 influences metabolic pathways and contributes to the maintenance of mitochondrial function. Its deacylase activity has implications for cellular energy metabolism, oxidative stress response, and metabolic homeostasis. Understanding the functions of Sirt5 may offer insights into mitochondrial biology and potential therapeutic avenues for metabolic disorders and age-related conditions.

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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