

SIRT5 Protein, Human (Flag)

Cat. No.:	HY-P74545
Synonyms:	NAD-dependent protein deacylase sirtuin-5; SIR2-like protein 5; SIRT5; SIR2L5
Species:	Human
Source:	E. coli
Accession:	NP_036373.1 (R2-S310)
Gene ID:	23408
Molecular Weight:	Approximately 33-37 kDa

PROPERTIES

AA Sequence	<pre> R P L Q I V P S R L I S Q L Y C G L K P P A S T R N Q I C L K M A R P S S S M A D F R K F F A K A K H I V I I S G A G V S A E S G V P T F R G A G G Y W R K W Q A Q D L A T P L A F A H N P S R V W E F Y H Y R R E V M G S K E P N A G H R A I A E C E T R L G K Q G R R V V V I T Q N I D E L H R K A G T K N L L E I H G S L F K T R C T S C G V V A E N Y K S P I C P A L S G K G A P E P G T Q D A S I P V E K L P R C E E A G C G G L L R P H V V W F G E N L D P A I L E E V D R E L A H C D L C L V V G T S S V V Y P A A M F A P Q V A A R G V P V A E F N T E T T P A T N R F R F H F Q G P C G T T L P E A L A C H E N E T V S </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 1 mM DTT, pH 8.2. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization or 20 mM PB, 150 mM NaCl, 1 mM DTT, pH 7.8.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SIRT5, a member of the sirtuin family, shares homology with the yeast Sir2 protein and is characterized by a sirtuin core domain. The sirtuin family is divided into four classes, and while the specific functions of human sirtuins are yet to be fully
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elucidated, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that human sirtuins may serve as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. SIRT5, classified within class III of the sirtuin family, undergoes alternative splicing, resulting in multiple transcript variants. The expression of SIRT5 is ubiquitous, observed in various tissues, including the heart, liver, and 25 other tissues, highlighting its likely involvement in diverse cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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