

Recombinant Mouse Sirt5 Protein, Myc/DDK-tagged

Cat. No. Sirt5-5884M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length sirtuin 5 (Sirt5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	<p>NAD-dependent lysine demalonylase, desuccinylase and deglutarylase that specifically removes malonyl, succinyl and glutaryl groups on target proteins. Activates CPS1 and contributes to the regulation of blood ammonia levels during prolonged fasting: acts by mediating desuccinylation and deglutarylation of CPS1, thereby increasing CPS1 activity in response to elevated NAD levels during fasting. Activates SOD1 by mediating its desuccinylation, leading to reduced reactive oxygen species. Activates SHMT2 by mediating its desuccinylation. Modulates ketogenesis through the desuccinylation and activation of HMGCS2. Has weak NAD-dependent protein deacetylase activity; however this activity may not be physiologically relevant in vivo. Can deacetylate cytochrome c (CYCS) and a number of other proteins in vitro such as Uox.</p>
Molecular Mass	34.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Sirt5 sirtuin 5 [Mus musculus (house mouse)]
Official Symbol	Sirt5
Synonyms	SIRT5; sirtuin 5 (silent mating type information regulation 2 homolog) 5 (S. cerevisiae); NAD-dependent lysine demalonylase and desuccinylase sirtuin-5, mitochondrial; SIR2-like protein 5; NAD-dependent deacetylase sirtuin-5; AV001953; 0610012J09Rik; 1500032M05Rik
Gene ID	68346
mRNA Refseq	NM_178848
Protein Refseq	NP_849179
UniProt ID	Q8K2C6

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