

## Recombinant Human SIRT3 Protein (S118-K399), Tag Free

Cat. No. SIRT3-0719H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human hSIRT3(S118-K399 end) Protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	S118-K399
<b>Description</b>	<p>NAD-dependent protein deacetylase. Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues. Known targets include ACSS1, IDH, GDH, SOD2, PDHA1, LCAD, SDHA and the ATP synthase subunit ATP5PO. Contributes to the regulation of the cellular energy metabolism. Important for regulating tissue-specific ATP levels. In response to metabolic stress, deacetylates transcription factor FOXO3 and recruits FOXO3 and mitochondrial RNA polymerase POLRMT to mtDNA to promote mtDNA transcription. Acts as a regulator of ceramide metabolism by mediating deacetylation of ceramide synthases CERS1, CERS2 and CERS6, thereby increasing their activity and promoting mitochondrial ceramide accumulation.</p>
<b>Form</b>	Liquid
<b>Endotoxin</b>	< 0.01 EU per µg of the protein
<b>Purity</b>	90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	SIRT3 sirtuin 3 [ Homo sapiens (human) ]
<b>Official Symbol</b>	SIRT3
<b>Synonyms</b>	SIRT3; sirtuin 3; sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae), sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 3; NAD-dependent deacetylase sirtuin-3, mitochondrial; SIR2L3; sir2-like 3; sirtuin type 3; SIR2-like protein 3; silent mating type information regulation 2, S.cerevisiae, homolog 3; mitochondrial nicotinamide adenine dinucleotide-dependent deacetylase;
<b>Gene ID</b>	23410
<b>mRNA Refseq</b>	NM_001017524
<b>Protein Refseq</b>	NP_001017524
<b>MIM</b>	604481
<b>UniProt ID</b>	Q9NTG7

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