Recombinant Human SIRT3 Protein (S118-K399), His/SUMO tagged

Cat. No. SIRT3-0720H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-SUMO-TEV-hSIRT3(S118-K399 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	S118-K399
Description	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.
Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein

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Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	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.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	SIRT3 sirtuin 3 [Homo sapiens (human)]
Official Symbol	SIRT3
Synonyms	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;
Gene ID	23410
mRNA Refseq	NM_001017524
Protein Refseq	NP_001017524
MIM	604481

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UniProt ID	Q9NTG7

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