

Recombinant Human SIRT5

Cat. No. SIRT5-342H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	Sirtuins are phylogenetically conserved from bacteria to humans and regulate cell functions beyond silencing. The proteins show a relevance to cancer, obesity, muscle differentiation, inflammation and neuro-degeneration. In addition, Sirtuin activity may extend the lifespan of several organisms. Human Sirtuin 5 (Sirt5) is a mitochondrial member of Class III of the protein deacetylases family (historically called histone deacetylases family). Class III deacetylases utilize NAD ⁺ as cosubstrate and act either as deacetylases or as ADP-ribosyltransferases. MW=29.9kDa (275 amino acids).
Form	Purified recombinant protein in 20mM Tris-HCl pH7.8, 150mM NaCl and 2mM DTT.
Purity	>95% by SDS-PAGE.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	SIRT5 sirtuin (silent mating type information regulation 2 homolog) 5 (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
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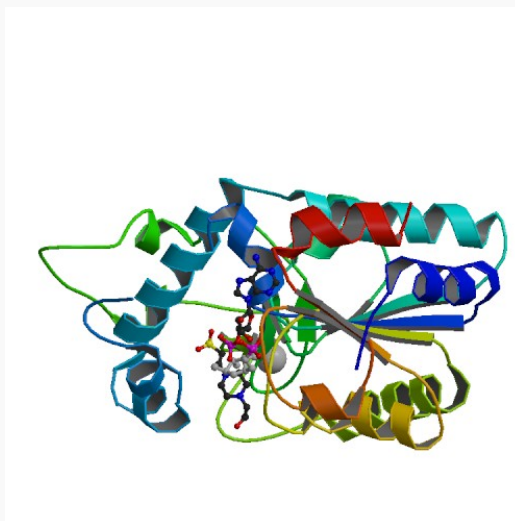
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Synonyms	SIRT5; sirtuin (silent mating type information regulation 2 homolog) 5 (S. cerevisiae); SIR2L5; FLJ36950; sirtuin 5; sir2-like 5; sirtuin type 5; silent mating type information regulation 2, S.cerevisiae, homolog 5; EC 3.5.1.-; OTTHUMP00000016054; OTTHUMP00000016055; SIR2-like protein 5; sirtuin (silent mating type information regulation; S.cerevisiae, homolog) 5
Gene ID	23408
mRNA Refseq	NM_012241
Protein Refseq	NP_036373
MIM	604483
UniProt ID	Q9NXA8
Chromosome Location	6p23
Function	NAD binding; NAD+ ADP-ribosyltransferase activity; hydrolase activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides; metal ion binding; zinc ion binding

PDB rendering based
on 2b4y.



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