

Active Recombinant Human SIRT1, His-tagged

Cat. No. SIRT1-463H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human sirtuin 1 (aa 2-555) is fused at the N-terminus to a His-tag.
Species	Human
Source	E.coli
ProteinLength	2-555 a.a.
Description	This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Alternative splicing results in multiple transcript variants.
Form	Liquid. 0.2µm-filtered solution in 55mM TRIS-Cl, pH 8.2, containing 150mM NaCl.
Bio-activity	HDAC activity.
Molecular Mass	~70kDa (SDS-PAGE)
Endotoxin	<1EU/µg purified protein (LAL test; Lonza).

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Purity	≥95% (SDS-PAGE).
Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C Long Term Storage: -20°C Handling Advice: After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	SIRT1 sirtuin 1 [Homo sapiens (human)]
Official Symbol	SIRT1
Synonyms	SIRT1; SIR2L1; sirtuin 1; NAD-dependent protein deacetylase sirtuin-1; hSIR2; hSIRT1; SIR2alpha; sir2-like 1; sirtuin type 1; SIR2-like protein 1; regulatory protein SIR2 homolog 1; NAD-dependent deacetylase sirtuin-1
Gene ID	23411
mRNA Refseq	NM_001142498
Protein Refseq	NP_001135970
MIM	604479
UniProt ID	Q96EB6
Chromosome Location	10q21.3
Pathway	Amphetamine addiction; Androgen receptor signaling pathway; FoxO signaling pathway

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Function

HLH domain binding; NOT NAD⁺ ADP-ribosyltransferase activity; NAD-dependent histone deacetylase activity

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