Recombinant Human SIRT2, His-tagged

Cat. No. SIRT2-463H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIRT2 (amino acids 13-319) was expressed in an*E.coli*expression system with Cterminal His tag. MW=35.5 kDa.
Species	Human
Source	E.coli
ProteinLength	13-319 a.a.
Description	NAD-dependent deacetylase sirtuin-2 is an enzyme that in humans is encoded by the SIRT2 gene. 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. Two transcript variants result from alternative splicing of this gene.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, 3 mM DTT.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Purity	> 90%.

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Stability	>6 months at -80°C.

GENE INFORMATION

Gene Name	SIRT2 sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae) [Homo sapiens]
Synonyms	sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae); SIR2; SIR2L; SIR2L2; SIRT2; sirtuin 2; sirtuin type 2; sir2-related protein type 2; silent information regulator 2; silencing information regulator 2-like; EC 3.5.1.-; SIR2-like; SIR2-like protein 2; sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 2
Gene ID	22933
mRNA Refseq	NM_012237
Protein Refseq	NP_036369
MIM	604480
UniProt ID	Q8IXJ6
Chromosome Location	19q13
Function	NAD binding; NAD+ ADP-ribosyltransferase activity; NAD-dependent histone deacetylase activity; histone acetyltransferase binding; histone deacetylase binding; hydrolase activity; metal ion binding; transcription factor binding; tubulin deacetylase activity; ubiquitin binding; zinc ion binding

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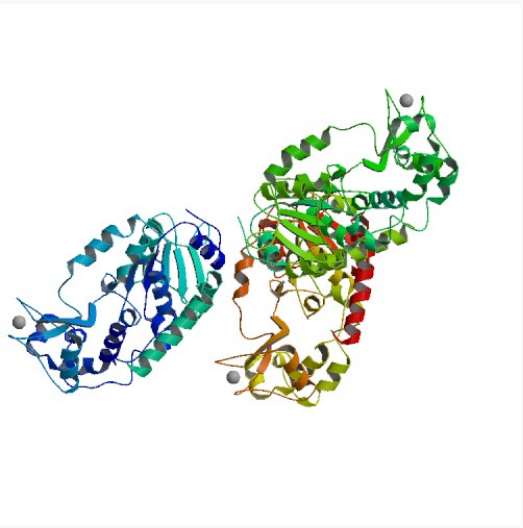
PDB rendering based on 1j8f.	

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