Recombinant Human Sirtuin 2, His-tagged

Cat. No. SIRT2-4875H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human SIRT2 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
Description	SIRT2 is a member of the sirtuin family of proteins which are homologs to the yeast Sir2 protein. Sirtuin family contain a sirtuin core domain and are grouped into four classes with SIRT2 being a member of class I. Inhibition of SIRT2 can lead to neuroprotection in cellular and invertebrate models of Huntington" s disease. Huntington"s disease is characterized by increased sterol synthesis in neuronal cells and this process is reversed by SIRT2 inhibition.
Applications	SIRT Assay
Molecular Weight	42 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.
Specific Activity	8000 RLU/min/mg

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Purity	> 70 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Signaling events mediated by HDAC Class I; Signaling events mediated by HDAC Class III
Full Length	Full L.

GENE INFORMATION

Gene Name	SIRT2 sirtuin 2 [Homo sapiens]
Official Symbol	SIRT2
Synonyms	SIRT2; sirtuin 2; SIR2; SIR2L; SIR2L2; FLJ35621; FLJ37491; NAD-dependent deacetylase sirtuin-2; sirtuin type 2; OTTHUMP00000197460; OTTHUMP00000197461; OTTHUMP00000197465; SIR2-like protein 2; sir2-related protein type 2; silent information regulator 2; EC 3.5.1.-; sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae); sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 2
Gene ID	22933
mRNA Refseq	NM_012237

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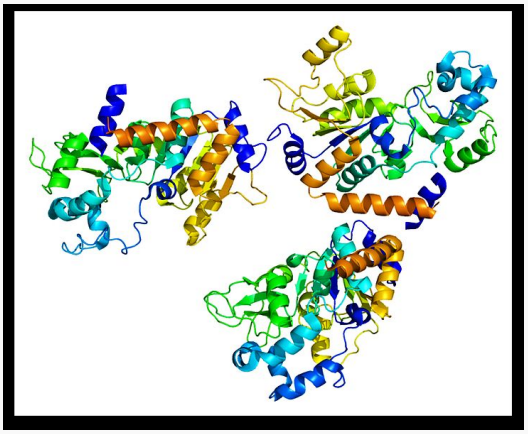
Protein Refseq	NP_036369
MIM	604480
UniProt ID	Q8IXJ6
Chromosome Location	19q13
Function	NAD binding; NAD+ ADP-ribosyltransferase activity; NAD-dependent histone deacetylase activity; histone acetyltransferase binding; histone deacetylase binding; hydrolase activity; metal ion binding; transcription factor binding; tubulin deacetylase activity; ubiquitin binding; zinc ion binding; protein binding; protein deacetylase activity
PDBrendering based on 1j8f.	

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