

Recombinant Human SIRT2 Protein, His-tagged

Cat. No. SIRT2-107H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active recombinant N-terminal His-tagged human SIRT2 protein (2-389) was purified from E. coli.
Species	Human
Source	E.coli
ProteinLength	2-389
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. Several transcript variants are resulted from alternative splicing of this gene.
Molecular Mass	44.2 kDa
Purity	≥90% as determined by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to produce 1 nmol of 7-amino-4-methylcouarin per minute at 25 centigrade in 50 mM Tris-HCl, pH 8.0, 137 mM NaCl

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I, 2.7 mM KCl, 1 mM MgCl₂, containing 125 µM p53 amino acids 317-320 (Gln-Pro-Lys-Lys(e-acetyl)-AMC), and 6 mM NAD⁺.

Stability

≥ 1 year

Storage

At -80 centigrade.

Storage Buffer

50 mM sodium phosphate, pH 7.2, containing 100 mM sodium chloride and 20% glycerol

GENE INFORMATION

Gene Name

SIRT2 sirtuin 2 [Homo sapiens (human)]

Official Symbol

SIRT2

Synonyms

SIRT2; sirtuin 2; SIR2; SIR2L; SIR2L2; NAD-dependent protein deacetylase sirtuin-2; NAD-dependent deacetylase sirtuin-2; SIR2-like protein 2; regulatory protein SIR2 homolog 2; silent information regulator 2; sir2-related protein type 2; sirtuin type 2; EC 2.3.1.286

Gene ID

22933

mRNA Refseq

NM_012237

Protein Refseq

NP_036369

MIM

604480

UniProt ID

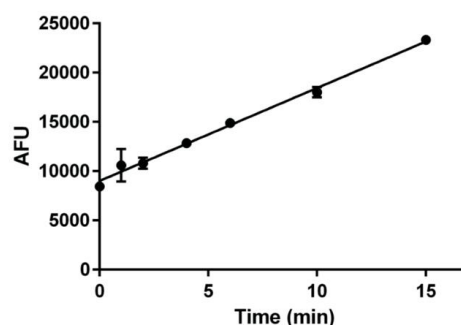
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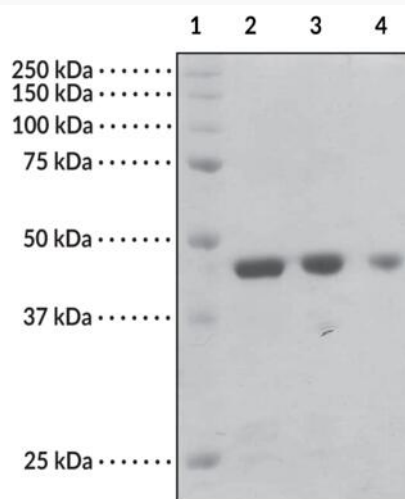
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SIRT2 Activity Assay



SDS-PAGE analysis of SIRT2



Lane 1: MW Markers

Lane 2: SIRT2 (5 µg)

Lane 3: SIRT2 (2.5 µg)

Lane 4: SIRT2 (1.25 µg)