

Recombinant Human Sirtuin 5, His-tagged

Cat. No. SIRT5-4880H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human SIRT5 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
Description	SIRT5 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 SIRT5 being a member of class III. SIRT5 consists of eight exons and is found in two isoforms which encode a 310 aa and a 299 aa protein, respectively. Human SIRT5 is most predominantly expressed in heart muscle cells and in lymphoblasts.
Applications	SIRT Assay
Molecular Weight	39 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	20 RLU/min/mg

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Purity	> 80 %
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
Full Length	Full L.

GENE INFORMATION

Gene Name	SIRT5 sirtuin 5 [Homo sapiens]
Official Symbol	SIRT5
Synonyms	SIRT5; sirtuin 5; SIR2L5; FLJ36950; NAD-dependent deacetylase sirtuin-5; sir2-like 5; sirtuin type 5; OTTHUMP00000016054; OTTHUMP00000016055; SIR2-like protein 5; silent mating type information regulation 2, S.cerevisiae, homolog 5; EC 3.5.1.-; sirtuin (silent mating type information regulation 2 homolog) 5 (S. cerevisiae); sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 5
Gene ID	23408
mRNA Refseq	NM_012241
Protein Refseq	NP_036373

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MIM	604483
UniProt ID	Q9NXA8
Chromosome Location	6p23
Function	NAD binding; NAD+ ADP-ribosyltransferase activity; hydrolase activity; hydrolase activity; metal ion binding; zinc ion binding
PDBrendering based on 2b4y.	