

## Recombinant Human SIRT2, His-tagged

**Cat. No.** SIRT2-30567TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment, corresponding to amino acids 50-356 of Human SIRT2, with C-terminal His tag, 35.5 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>      | 50-356 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>        | 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. |
| <b>Conjugation</b>        | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tissue specificity</b> | Widely expressed. Highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulatio                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                              |                                                                                                                       |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Biological activity</b>   | Specific Activity: 1.4 U/μg. One U =1 pmol/min.                                                                       |
| <b>Form</b>                  | Liquid                                                                                                                |
| <b>Purity</b>                | >90% by SDS-PAGE                                                                                                      |
| <b>Storage buffer</b>        | Preservative: None<br>Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8 |
| <b>Storage</b>               | Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.                                                      |
| <b>Sequence Similarities</b> | Belongs to the sirtuin family. Contains 1 deacetylase sirtuin-type domain.                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">SIRT2 sirtuin 2 [ Homo sapiens ]</a>                                                                                                                                                                                |
| <b>Official Symbol</b> | <a href="#">SIRT2</a>                                                                                                                                                                                                           |
| <b>Synonyms</b>        | SIRT2; sirtuin 2; SIR2L, sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae) , sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 2; NAD-dependent deacetylase sirtuin-2; |
| <b>Gene ID</b>         | <a href="#">22933</a>                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | <a href="#">NM_001193286</a>                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | <a href="#">NP_001180215</a>                                                                                                                                                                                                    |
| <b>MIM</b>             | <a href="#">604480</a>                                                                                                                                                                                                          |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Uniprot ID</b>          | Q8IXJ6                                                                                                                                                              |
| <b>Chromosome Location</b> | 19q13                                                                                                                                                               |
| <b>Pathway</b>             | Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class III, organism-specific biosystem;                   |
| <b>Function</b>            | NOT NAD+ ADP-ribosyltransferase activity; NAD+ binding; NAD-dependent histone deacetylase activity; histone acetyltransferase binding; histone deacetylase binding; |

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