

## Recombinant Full Length Human Sirtuin 5, GST-tagged

Cat. No. SIRT5-4881H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Full-length recombinant human SIRT5 was expressed in E. coli cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-310 a.a.
<b>Description</b>	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.
<b>Applications</b>	Western Blot
<b>Molecular Weight</b>	60 kDa
<b>Expression System</b>	E. coli
<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25 % glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 95 %
<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<b>Pathways</b>	Signaling events mediated by HDAC Class I
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">SIRT5 sirtuin 5 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">SIRT5</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">23408</a>
<b>mRNA Refseq</b>	<a href="#">NM_012241</a>
<b>Protein Refseq</b>	<a href="#">NP_036373</a>
<b>MIM</b>	<a href="#">604483</a>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

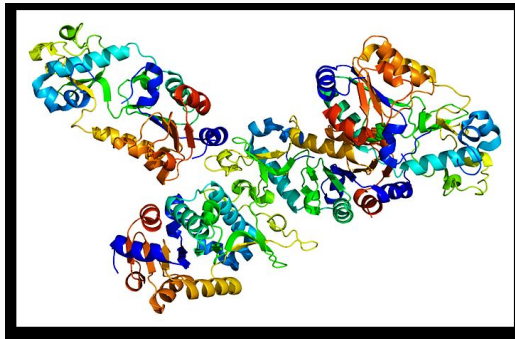
 45-1 Ramsey Road, Shirley, NY 11967, USA

**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.**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA