

Recombinant Human Sirtuin 6, His-tagged

Cat. No. SIRT6-357H **Lot. No.** (See product label)

SPECIFICATION

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|---------------------------------|---|
| Product Overview | Recombinant Human SIRT6, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography techniques, 41 kDa (375 aa). |
| Species | Human |
| Source | E.coli |
| Description | The SIRT6 is included in class IV of the sirtuin family, homologs to the yeast Sir2 protein. The functions of human sirtuins have not yet been determined; however, in yeast sirtuins are known to regulate epigenetic gene silencing. Also SIRT6, a chromatin-associated protein, appears to be involved in DNA repair. |
| Form | Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol |
| Purity | > 95% by SDS - PAGE. |
| Concentration | 1 mg/ml (determined by Bradford assay) |
| Sequences of amino acids | MGSSHHHHHH SSGLVPRGSH MSVNAAAGLS PYADKGGKCGL PEIFDPPEEL ERKVVELARL VWQSSSVVFH TGAGISTASG IPDFRGPHGV WTMEERGLAP KFDTTFESAR PTQTHMALVQ LERVGLLRFL VSQNV DGLHV RSGFPRDKLA ELHG NMFV EE CAKCKTQYVR DTVVGT MGLK ATGRLCTVAK ARGLRACRGE LRDTILDWED SLPDRDLALA DEASRNADLS ITLGTSLQIR PSGNLPLATK RRGGRLVIVN LQPTKHDRHA DLRIHGYVDE VMTRLMEHLG LEIPAWDGPR VLERALPPLP RPPTPKLEPK EESPTRINGS IPAGPKQEPC AQHNGSEPAS |

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

PKRERPTSPA PHRPPKRVKA KAVPS

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

SIRT6 sirtuin (silent mating type information regulation 2 homolog) 6 (*S. cerevisiae*) [*Homo sapiens*]

Synonyms

SIRT6; SIR2L6; sirtuin (silent mating type information regulation 2 homolog) 6 (*S. cerevisiae*); sirtuin 6; sirtuin type 6; sir2-related protein type 6; EC 2.4.2.31; SIR2-like protein 6; sirtuin (silent mating type information regulation 2, *S.cerevisiae*, homolog) 6.

Gene ID

51548

mRNA Refseq

NM_016539

Protein Refseq

NP_057623

MIM

606211

UniProt ID

Q8N6T7

Chromosome Location

19p13.3

Function

NAD binding; NAD(P)+-protein-arginine ADP-ribosyltransferase activity; NAD+ ADP-ribosyltransferase activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides; metal ion binding; protein binding; transferase

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activity, transferring glycosyl groups; zinc ion binding.

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