

## SIRT6 Human

**Description:** SIRT6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 375 amino acids (1-355 a.a.) and having a molecular mass of 41 kDa. Recombinant SIRT6 is fused to 20 amino acids His-tag at N-terminus and purified by conventional chromatography techniques.

Catalog #: PRPS-289

For research use only.

**Synonyms:** Mono-ADP-ribosyltransferase sirtuin-6, SIR2-like protein 6, SIRT6, SIR2L6, Sirtuin-6.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SGLVPRGSH MSVNYAAGLS PYADKGGKCGL  
PEIFDPPEEL ERKVVWELARL VWQSSVVVFH TGAGISTASG IPDFRGPBGV WTMEERGLAP  
KFDTTFESAR PTQTHMALVQ LERVGLLRFL VSQNVLDGLHV RSGFPRDKLA ELHGNNMFVEE  
CAKCKTQYVR DTVVGTMLGLK ATGRLCTVAK ARGLRACRGE LRDTILDWED SLPDRDLALA  
DEASRNADLS IT

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The SIRT6 protein solution contains 20mM Tris-HCl pH-8 & 10% glycerol.

**Stability:**

SIRT6 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

SIRT6 is part of the sirtuin family of proteins (Class IV), homologs to the yeast Sir2 protein. SIRT6 is characterized by a sirtuin core domain. Yeast sirtuin proteins are recognized by their ability to regulate epigenetic gene silencing and suppress recombination of rDNA. SIRT6, a chromatin-associated protein is involved in DNA repair. Human Sirtuins function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity.

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