

## SIRT3 Human

**Description:** SIRT3 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 303 amino acids (118-399a.a.) and having a molecular mass of 33.5kDa. SIRT3 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-469

For research use only.

**Synonyms:** Sirtuin 3, SIR2-like protein 3, Sir2-like 3, NAD-dependent deacetylase sirtuin-3, mitochondrial.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSDKGKLSLQ DVAELIRARA  
CQRVVMVGA GISTPSGIPD FRSPGSGLYS NLQYDLPYP EAIFELPFFF HNPKPFFTLA  
KELYPGNYKP NVTHYFLRL HDKGLLLRLY TQNIDGLERV SGIPASKLVE AHGTFASATC  
TVCQRPFPGE DIRADVMDR VPRCPVCTGV VKPDIVFFGE PLPQRFLHV VDFPMADLLL  
ILGTSLEVEP FA

**Purity:** Greater than 95% as determined by SDS-PAGE.

### Formulation:

The SIRT3 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 1mM DTT, 0.1M NaCl, 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple 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:

SIRT3 is a member of a family of proteins called Sirtuin. Proteins of the Sirtuin family are characterized by a Sirtuin core domain and grouped into four classes. The roles of human Sirtuins are numerous and are important in aging processes, stress resistance and metabolic regulation. SIRT3 shows NAD<sup>+</sup>-dependent deacetylase activity in the mitochondria. Over-expression of SIRT3 causes increased levels of the mitochondrial uncoupling protein 1. Also, in certain breast cancers the levels of SIRT3 protein are found to be extremely high.

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