

## 32-4851: Recombinant Human Sirtuin-3

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

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 95% as determined by SDS-PAGE.
<b>Content :</b>	The SIRT3 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 1mM DTT, 0.1M NaCl, 10% glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSSLVPRGSH MSDKGKLSLQ DVAELIRARA CQRVVMVGA GISTPSGIPD FRSPGSGLYS NLQYDLPYP EAIFELPFFF HNPKPFFTLA KELYPGNYKP NVTHYFLRLL HDKGLLLRLY TQNIDGLERV SGIPASKLVE AHGTFASATC TVCQRPFPG E DIRADVMADR VPRCPVCTGV VKPDIVFFGE PLPQRFLHVV VDFPMADLLL ILGTSLEVEP FASLTEAVRS SVPRLLINRD LVGPLAWHPR SRDVAQLGDV VHGVESLVEL LWTEEMRDL VQRETGKLDG PDK.

