

## SIRT4 (GST-tagged), Human recombinant

**CATALOG #:** 7673-20 20 µg  
7673-50 50 µg

**ALTERNATE NAMES:** SIR2-like Protein 4; NAD-dependent ADP-ribosyltransferase Sirtuin 4; SIR2L4; Silent Information Regulator 4; Sirtuin 4.

**SOURCE:** E.Coli

**PURITY:** ≥95% by SDS - PAGE

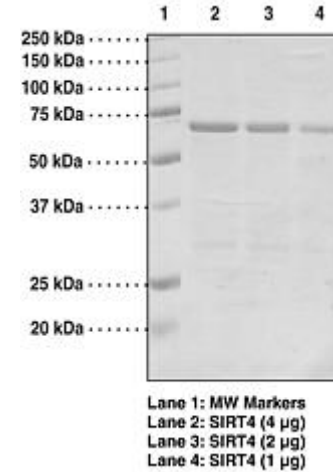
**MOL. WEIGHT:** 61.9 kDa (NT GST Tag)

**FORMULATION:** 50 mM sodium phosphate, pH 7.2, 100 mM sodium chloride, 2.5 mM DTT, 20% glycerol.

**STORAGE CONDITIONS:** Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for ≥9 months.

**DESCRIPTION:**

There are seven human sirtuins, also known as class III HDACs, which have been designated SIRT1 to SIRT7. Each is involved in various post-translational modifications by utilizing NAD dependent deacetylase and APD-ribosyltransferase activities. SIRT4 is a mitochondrial ADP-ribosyltransferase responsible for the transfer of ADP-ribose from NAD to specific substrates such as glutamate dehydrogenase (GDH). In caloric-sufficient conditions, SIRT4 ADP-ribosylates GDH, repressing its activity and correspondingly decreasing insulin secretion. There is some uncertainty about the relevance of sirtuin ribosyl transferase activity due to its very slow rate, which is about 500 times lower than the corresponding deacetylation reaction (for those that have been characterized). SIRT4 is found in many tissues, but is specifically enriched in the kidney, heart, brain, and liver.



Human Recombinant SIRT4

**RELATED PRODUCTS:**

- Sirtuin 2, human recombinant (Cat. No. 7632-20, -100, -1000)
- SIRT5 (GST-tagged), Human recombinant (Cat. No. 7674-20, -100)
- SIRT7 (His-tagged), Human recombinant (Cat. No. 7675-20, -100)
- Sirtuin 1 (human intracellular) ELISA Kit (Cat. No. K4923-100)
- Sirtuin 2 (human intracellular) ELISA Kit (Cat. No. K4924-100)
- SIRT 1 Inhibitor, EX-527 (Cat. No. 1652-10)
- SIRT 1 Inhibitor Screening Assay Kit (Cat. No. K322-100)
- SIRT 2 Inhibitor, AGK2 (Cat. No. 1651-10)
- SIRT 2 Inhibitor, AK-7 (Cat. No. 1857-5, -25)
- SIRT3 Antibody (Cat. No. 3223-100)
- SIRT4 Antibody (Cat. No. 3224-100)
- SIRT5 Antibody (Cat. No. 3225-100)
- SIRT7 Antibody (Cat. No. 3009-100)
- Sirtinol (Cat. No. 2062-1, -5)

**FOR RESEARCH USE ONLY! Not to be used in humans.**