

SIRT5 (GST-tagged), Human recombinant

CATALOG #: 7674-20 20 µg
7674-50 50 µg

ALTERNATE NAMES: NAD-dependent Deacetylase 5; SIR2-like Protein 5; SIR2L5; Sirtuin 5; Silent Information Regulator 5.

SOURCE: E.Coli

PURITY: ≥90% by SDS - PAGE

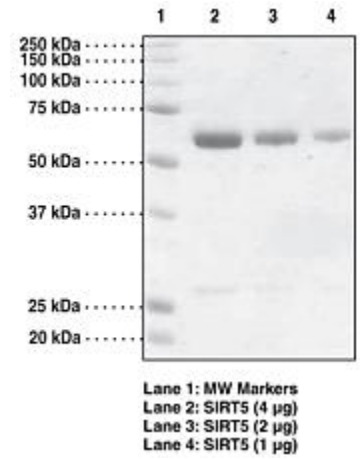
MOL. WEIGHT: 60.6 kDa (NT GST Tag), 26 kDa (native)

FORMULATION: 50 mM sodium phosphate, pH 7.2, 100 mM sodium chloride, and 20% glycerol.

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

DESCRIPTION:

The sirtuins represent a distinct class of trichostatin A-insensitive lysyl-deacetylases (class III HDACs) and have been shown to catalyze a reaction that couples lysine deacetylation to the formation of nicotinamide and O-acetyl-ADP-ribose from NAD+ and the abstracted acetyl group. There are seven human sirtuins, which have been designated SIRT1-7. SIRT5 is located in the mitochondrial matrix and its functions are largely still being elucidated, however a few promising substrates have been studied. SIRT5 has been shown to deacetylate carbamoyl phosphate synthetase 1 (CSP1), activating the enzyme to catalyze the first step of the urea cycle. CSP1 is important in the detoxification of excess ammonia that can accumulate during fasting. Cytochrome C, another mitochondrial enzyme involved in oxidative metabolism can also be deacetylated by SIRT5. SIRT5 is predominantly found in the heart, brain, testis, and lymphoblasts.



Human Recombinant SIRT5

RELATED PRODUCTS:

- Sirtuin 2, human recombinant (Cat. No. 7632-20, -100, -1000)
- SIRT4 (GST-tagged), Human recombinant (Cat. No. 7673-20, -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.

