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SIRT3 Protein (AA 5-257) (His tag)



Image



Overview

| Quantity: | 50 μg |
|-------------------------------|--|
| Target: | SIRT3 |
| Protein Characteristics: | AA 5-257 |
| Origin: | Mouse |
| Source: | Escherichia coli (E. coli) |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This SIRT3 protein is labelled with His tag. |
| Application: | Activity Assay (AcA), Cell Culture (CC) |

Product Details

| Characteristics: | Tag location: N-terminal His Tag |
|------------------------------|--|
| Purity: | > 90 % |
| Biological Activity Comment: | Sirtuin 3 (SIRT3) also known as NAD-dependent deacetylase sirtuin-3 is a member of the |
| | mammalian sirtuin family of proteins. SIRT3 is a soluble protein located in the mitochondrial |
| | matrix, and contains a mitochondrial processing peptide at the N-terminus. It is a key regulator |
| | of succinate dehydrogenase (SDH), which catalyzes the oxidation of succinate to fumarate. |
| | Increased succinate concentrations and the specific G protein-coupled receptor 91 (GPR91) are |
| | involved in the activation of hepatic stellate cells (HSCs). SIRT3 agonists could help treat |
| | metabolic disorders such as obesity, metabolic syndrome and type 2 diabetes. Besides, |
| | Dihydrolipoyl Transacetylase (DLAT) has been identified as an interactor of SIRT3, thus a |

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binding ELISA assay was conducted to detect the interaction of recombinant mouse SIRT3 and

recombinant mouse DLAT. Briefly, SIRT3 were diluted serially in PBS, with 0.01% BSA (pH 7.4).

Duplicate samples of 100uL were then transferred to DLAT-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-SITR3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of SIRT3 and DLAT was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of SIRT3 with DLAT.

Target Details

| Target: | SIRT3 |
|-------------------|--|
| Abstract: | SIRT3 Products |
| Background: | Alternative Names: SIR2L3, Silent Mating Type Information Regulation 2 Homolog 3, NAD-dependent protein deacetylase sirtuin-3, mitochondrial, SIR2-like protein 3, Regulatory protein SIR2 homolog 3 |
| Molecular Weight: | 16&29kDa |
| UniProt: | Q8R104 |

Application Details

| Application Notes: | Isoelectric Point: 6.4 |
|--------------------|------------------------|
| Restrictions: | For Research Use only |

Handling

| Format: | Lyophilized |
|--------------------|---|
| Buffer: | 20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300. |
| Preservative: | Dithiothreitol (DTT), Other preservative, ProClin |
| Precaution of Use: | This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only. |

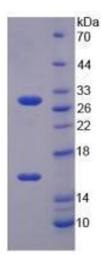


Image 1.