

Datasheet for ABIN6239975  
**SIRT3 Protein (AA 127-303) (His tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	50 µg
Target:	SIRT3
Protein Characteristics:	AA 127-303
Origin:	Rat
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:	> 95 %
Biological Activity Comment:	Sirtuin 3 (SIRT3), the NAD-dependent deacetylase is a member of the mammalian sirtuin family of proteins. In human, sirtuins have a range of molecular functions and have emerged as important proteins in aging, stress resistance and metabolic regulation. It also can regulate epigenetic gene silencing and suppress recombination of rDNA in yeast. SIRT3 expression in white and brown adipose tissue. Besides, X-Ray Repair Cross Complementing 6 (XRCC6) has been identified as an interactor of SIRT3, thus a binding ELISA assay was conducted to detect the interaction of recombinant Rat SIRT3 and recombinant Rat XRCC6. Briefly, SIRT3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100µL were then transferred to XRCC6-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-SIRT3 pAb, then aspirated and washed 3 times. After

## Product Details

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 XRCC6 was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of SIRT3 with XRCC6.

## Target Details

Target:	SIRT3
Abstract:	<a href="#">SIRT3 Products</a>
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:	22kDa
UniProt:	<a href="#">C6ZII9</a>

## Application Details

Application Notes:	Isoelectric Point: 6.2
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.

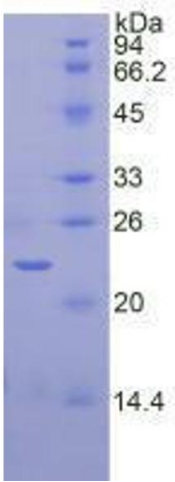


Image 1.