

Sirtuin 3 (SIRT3) Active Protein | SIRT3 active protein

Active Sirtuin 3 (SIRT3)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148212	E Coli	Rat	Activity Assay, Cell Culture

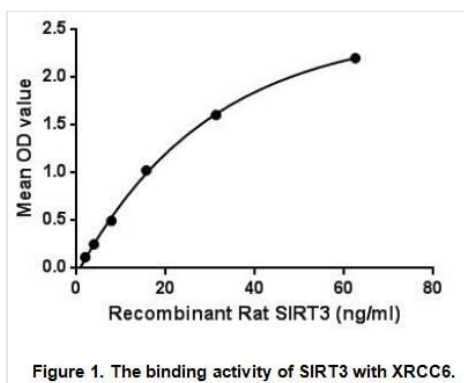
PRODUCT SYNONYMS

Sirtuin 3 (SIRT3); Active Sirtuin 3 (SIRT3); 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; SIRT3 active protein

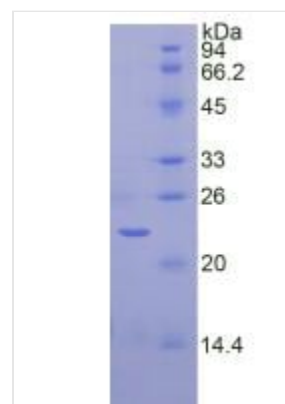
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Rat
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	320
Applicable Applications for SIRT3 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Pro127~Glu303
Isoelectric Point	6.2

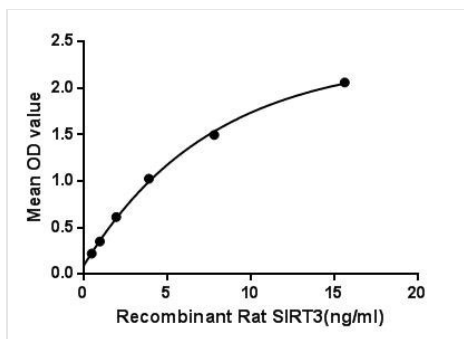
IMAGES



Application Data



SDS-PAGE



Activity

Figure. The binding activity of SIRT3 with IDH2. 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, Isocitrate Dehydrogenase 2, mitochondrial (IDH2) 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 IDH2. Briefly, SIRT3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IDH2-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-SIRT3 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 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of SIRT3 and IDH2 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for SIRT3
active protein

Signal Transduction

NCBI AND UNIPROT INFORMATION

UniProt Accession #	C6ZII9
Molecular Weight	Predicted Molecular Weight: 20.8kDa Accurate Molecular Weight: 22kDa
UniProt Protein Name	NAD-dependent protein deacetylase
UniProt Gene Name	Sirt3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-rat-active-protein/sirtuin-3-sirt3/148212>