

## Sirtuin 3 Active Protein | SIRT3 active protein

Active Sirtuin 3 (SIRT3)

CATALOG #  
**AAA150138**

APPLICATIONS  
**Activity Assay, Cell Culture**

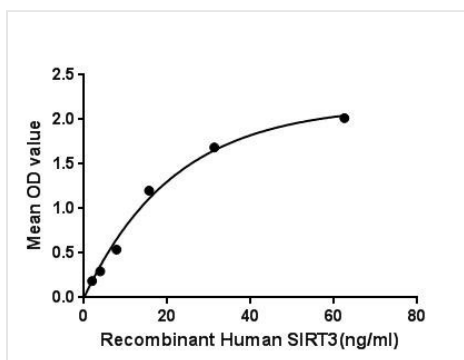
### PRODUCT SYNONYMS

Sirtuin 3; 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

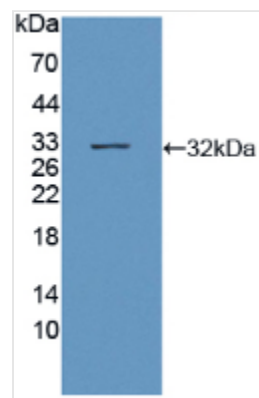
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification                              | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                      | Freeze-dried powder<br>20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Positions                               | Gln126~Lys399                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                  | 257                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for SIRT3 active protein | Activity Assay, Cell Culture                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species                                          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tag                                              | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Isoelectric Point                                | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reconstitution                                   | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                          | Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles.<br>Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

### IMAGES



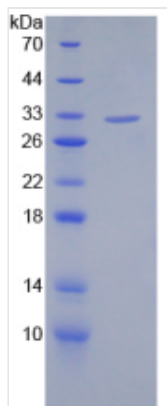
**Bioactivity**

Figure. The binding activity of SIRT3 with IDH2.



**WB (Western Blot)**

Figure. Western Blot



SDS-PAGE  
Figure. SDS-PAGE

### ADDITIONAL INFORMATION

|                                                    |                     |
|----------------------------------------------------|---------------------|
| Product Categories/Family for SIRT3 active protein | Signal transduction |
|----------------------------------------------------|---------------------|

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| NCBI GI #                        | 63054862                                                             |
| NCBI GeneID                      | 23410                                                                |
| NCBI Accession #                 | NP_001017524.1                                                       |
| NCBI GenBank Nucleotide #        | NP_001017524.1                                                       |
| UniProt Accession #              | Q9NTG7                                                               |
| Molecular Weight                 | Predicted Molecular Mass: 31.7kDa<br>Accurate Molecular Mass: 32kDa  |
| NCBI Official Full Name          | NAD-dependent protein deacetylase sirtuin-3, mitochondrial isoform b |
| NCBI Official Synonym Full Names | sirtuin 3                                                            |
| NCBI Official Symbol             | SIRT3                                                                |
| NCBI Official Synonym Symbols    | SIR2L3                                                               |
| NCBI Protein Information         | NAD-dependent protein deacetylase sirtuin-3, mitochondrial           |
| UniProt Protein Name             | NAD-dependent protein deacetylase sirtuin-3, mitochondrial           |
| UniProt Gene Name                | <b>SIRT3</b>                                                         |
| UniProt Synonym Gene Names       | SIR2L3; hSIRT3                                                       |
| UniProt Entry Name               | SIR3_HUMAN                                                           |

**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.