

SIRT3 recombinant protein

Recombinant SIRT3 (102-399) protein

CATALOG #
AAA59737

HOST
E Coli

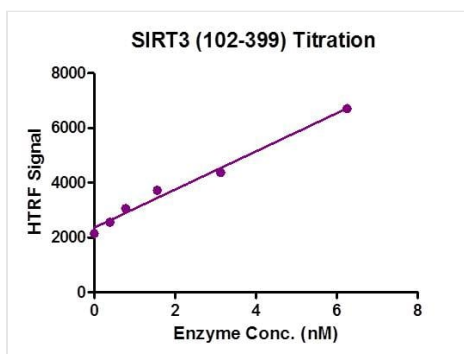
PRODUCT SYNONYMS

SIRT3; Recombinant SIRT3 (102-399) protein; SIRT-3; Sirtuin 3; Sir1-Like 3; EC 3.5.1; SIRT3 recombinant protein

PRODUCT SPECIFICATIONS

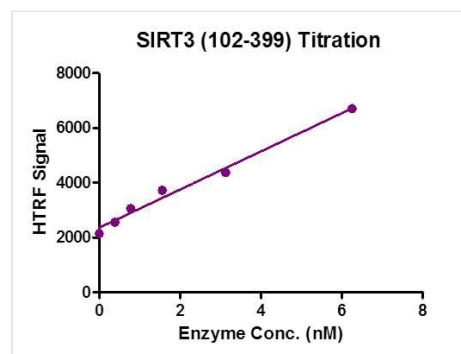
Host	E Coli
Purity/Purification	Recombinant SIRT3 (102-399) protein that includes amino acids 102-399 of human SIRT3 protein (accession number NM_012239.5) was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 59.7 kDa. The purity of the protein is > 60% by
Form/Format	Recombinant SIRT3 (102-399) protein is supplied in 25mM Tris pH8.0, 150mM NaCl, 5% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant SIRT3 protein is useful for histone and other protein deacetylase assays and the study of enzyme kinetics, screening inhibitors, and selectivity profiling. HDAC Activity Assay Conditions: 3uM histone peptide H3K9ac (1-21aa) was incubated with SIRT3 (102-399) in reaction buffer including 25mM Tris-HCl pH 8.0, 137mM NaCl, 2.7mM MgCl ₂ , 1mM KCl, 0.1mg/ml BSA and 50uM NAD ⁺ for 30 min at 37 degree C. HTRF assay was used for activity detection.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



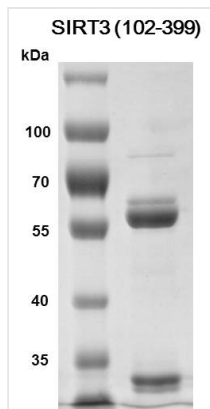
Application Data

HTRF assay for SIRT3 (102-399) activity. 3 uM histone peptide H3K9ac (1-21) was incubated with SIRT3 (102-399) in reaction buffer for 30 min at 37 degree C. Anti-H3K9me0 antibody was used to detect reaction products.



Application Data

HTRF assay for SIRT3 (102-399) activity. 3 uM histone peptide H3K9ac (1-21) was incubated with SIRT3 (102-399) in reaction buffer for 30 min at 37 degree C. Anti-H3K9me0 antibody was used to detect reaction products.



SDS-PAGE

Recombinant SIRT3 on 12.5% SDS-PAGE with Coomassie Blue staining. MW: 64.3 kDa.
Purity: > 60%

ADDITIONAL INFORMATION

Related Product Information for SIRT3 recombinant protein	Short Description: Recombinant SIRT3 (102-399) protein includes amino acids 102-399 of human SIRT3 protein (accession number NM_012239.5); it was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 59.7 kDa. The purity of the protein is > 60% by SDS-PAGE. It is suitable for histone and other protein deacetylase assays and use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: SIRT3 (Sirtuin 3) is a member of the SIR2/Sirtuin family of NAD⁺-dependant deacetylase enzymes. Sirtuin family enzymes can be found in the cytoplasm, mitochondria or nucleus of a cell and are ubiquitously expressed. SIRT3 has multiple targets for deacetylation, including ACSS1, IDH, GDH, SOD2, PDHA1, LCAD, SDHA and the ATP synthase subunit ATP5O. SIRT3 contributes to the regulation of the cellular energy metabolism and tissue-specific ATP levels.
Product Categories/Family for SIRT3 recombinant protein	Recombinant Proteins; Histone Deacetylase (HDAC)

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_012239.5
Molecular Weight	Molecular weight of 59.7kDa.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/sirt3-recombinant-protein-e-coli/59737>