

SIRT2 recombinant protein

Recombinant SIRT2 (50-356) protein

CATALOG #
AAA59736

HOST
E Coli

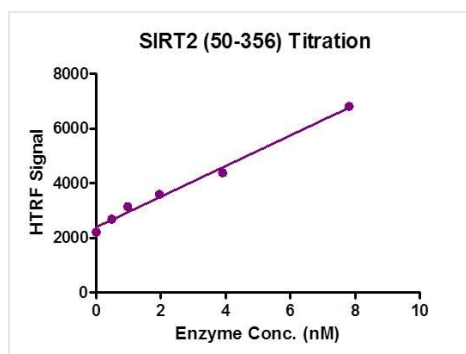
PRODUCT SYNONYMS

SIRT2; Recombinant SIRT2 (50-356) protein; SIRT-2; Sirtuin 2; SIR2-Like Protein; SIR2L; SIR2; SIRT2 recombinant protein

PRODUCT SPECIFICATIONS

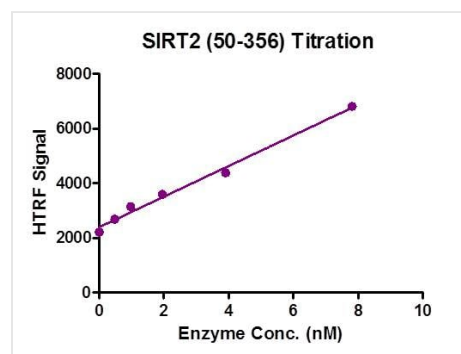
Host	E Coli
Purity/Purification	Recombinant SIRT2 (50-356) protein that includes amino acids 50-356 of human SIRT2 protein (accession number NM_012237.3) was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 66.5 kDa. The purity of the protein is $\geq 85\%$ by
Form/Format	Recombinant SIRT2 (50-356) protein is supplied in 25mM Tris pH8.0, 150mM NaCl, 5% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant SIRT2 protein is useful for histone 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 SIRT2 (50-356) 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



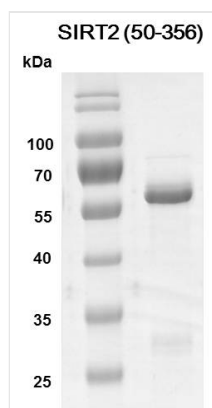
Application Data

HTRF assay for SIRT2 (50-356) activity. 3 uM histone peptide H3K9ac (1-21) was incubated with SIRT2 (50-356) in reaction buffer for 30 min at 37 degree C. Anti-H3K9me0 antibody was used to detect reaction products.



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SDS-PAGE

Recombinant SIRT2 Protein on 12.5% SDS-PAGE with Coomassie Blue staining

ADDITIONAL INFORMATION

Related Product Information for SIRT2 recombinant protein

Short Description: Recombinant SIRT2 (50-356) protein includes amino acids 50-356 of human SIRT2 protein (accession number NM_012237.3); it was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 66.5 kDa. The purity of the protein is $\geq 85\%$ by SDS-PAGE. It is suitable for histone deacetylase assays and use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.

Background: SIRT2 (Sirtuin 2) is a member of the SIR2/Sirtuin family of NAD⁺-dependant deacetylase enzymes. It has multiple targets for deacetylation, including tubulin, p53, HOXA10, FOXO3A, P300 and FOXO1. SIRT2 suppresses adipogenesis by deacetylating FOXO1, promoting the binding of FOXO1 to PPAR γ and subsequent repression of PPAR γ mediated transcriptional activation. Similar to SIRT1, SIRT2 also deacetylates histone H4 at lysine 16. SIRT2 is present in the cytoplasm during most of the cell cycle except in the G2/M transition and in mitosis, where it is found in the nucleus, in contact with chromatin, and is required for exit from mitosis.

Product Categories/Family for SIRT2 recombinant protein

Recombinant Proteins; Histone Deacetylase (HDAC)

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide

[NM_012237.3](#)

Molecular Weight

Molecular weight of 66.5kDa.

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/sirt2-recombinant-protein-e-coli/59736>