

SIRT2 recombinant protein

SIRT2, Active

CATALOG # AAA73139	HOST Sf9 insect cells using baculovirus	APPLICATIONS SIRT Assay
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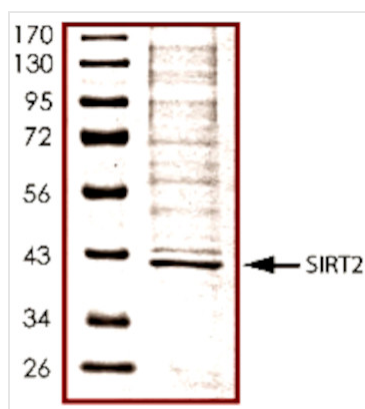
PRODUCT SYNONYMS

SIRT2; Active; SIRT2 recombinant protein

PRODUCT SPECIFICATIONS

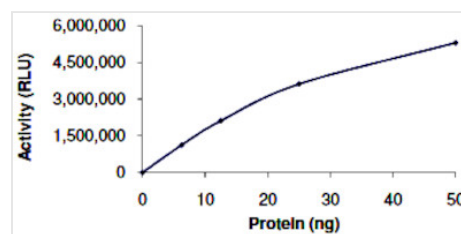
Host	Sf9 insect cells using baculovirus
Purity/Purification	>70%
Form/Format	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Concentration	0.1 ug/uL (varies by lot)
Sequence Positions	Full Length
Sequence Length	2078
Applicable Applications for SIRT2 recombinant protein	SIRT Assay
Species	Human
Tag	HIS tag
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	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data

The purity of SIRT2 was determined to be >70% by densitometry. Approx. MW 42kDa.



Application Data

The specific activity of SIRT2 was determined to be 8000 RLU/min/ng as per activity assay protocol.

ADDITIONAL INFORMATION

Related Product Information for SIRT2 recombinant protein	Description: Recombinant full length human SIRT2 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. Scientific Background: SIRT2 is a member of the sirtuin family of proteins which are homologs to the yeast Sir2 protein. Sirtuin family contain a sirtuin core domain and are grouped into four classes with SIRT2 being a member of class I. Inhibition of SIRT2 can lead to neuroprotection in cellular and invertebrate models of Huntington's disease (1). Huntington's disease is characterized by increased sterol synthesis in neuronal cells and this process is reversed by SIRT2 inhibition. SIRT2 can deacetylate lys40 of alpha-tubulin both in vitro and in vivo (2). Knockdown of SIRT2 via small interfering RNA results in tubulin hyperacetylation.
Product Categories/Family for SIRT2 recombinant protein	Enzymes; Active Histone Deacetylases
References	1. Luthi-Carter, R. Et al: SIRT2 inhibition achieves neuroprotection by decreasing sterol biosynthesis. Proc Natl Acad Sci U S A. 2010 Apr 27;107 (17):7927-32. 2. North, B. J. et al: The human Sir2 ortholog, SIRT2, is an NAD (+)-dependent tubulin deacetylase. Molec. Cell 11: 437-444, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	300797683
NCBI GeneID	22933
NCBI Accession #	NM_030593.2
NCBI GenBank Nucleotide #	NM_030593
Molecular Weight	42 kDa
NCBI Official Full Name	Homo sapiens sirtuin 2 (SIRT2), transcript variant 2, mRNA
NCBI Official Synonym Full Names	sirtuin 2
NCBI Official Symbol	SIRT2
NCBI Official Synonym Symbols	SIR2; SIR2L; SIR2L2
NCBI Protein Information	NAD-dependent protein deacetylase sirtuin-2
UniProt Protein Name	NAD-dependent protein deacetylase sirtuin-2
UniProt Gene Name	SIRT2
UniProt Synonym Gene Names	SIR2L; SIR2L2

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-sf9-insect-cells-using-baculovirus-sirt-assay/73139>