

Product datasheet

Recombinant human SIRT3 protein ab125810

2 Images

Overview

Product name	Recombinant human SIRT3 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Baculovirus infected Sf9 cells

Amino Acid Sequence

Accession	Q9NTG7
Species	Human
Molecular weight	66 kDa including tags
Amino acids	47 to 399

Specifications

Our [Abpromise guarantee](#) covers the use of **ab125810** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	The specific activity of ab125810 was determined to be 150 RLU/min/mg.
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Applications	Functional Studies SDS-PAGE
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Purity	> 70 % Densitometry. Purity was determined to be >70% by densitometry.
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Form	Liquid
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Preparation and Storage

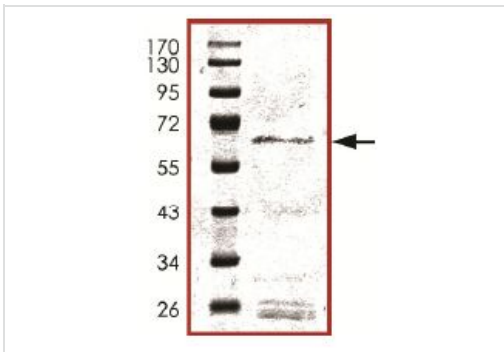
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol, 0.88% Sodium chloride
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

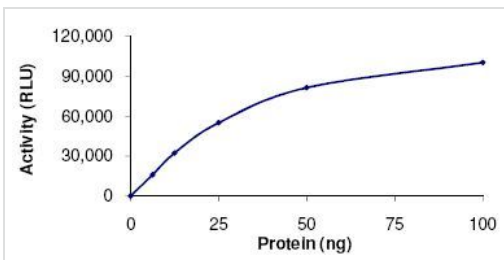
Function	NAD-dependent protein deacetylase. Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues. Known targets include ACSS1, IDH, GDH, SOD2, PDHA1, LCAD, SDHA and the ATP synthase subunit ATP5O. Contributes to the regulation of the cellular energy metabolism. Important for regulating tissue-specific ATP levels.
Tissue specificity	Widely expressed.
Sequence similarities	Belongs to the sirtuin family. Class I subfamily. Contains 1 deacetylase sirtuin-type domain.
Post-translational modifications	Processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product. Such processing is probably essential for its enzymatic activity.
Cellular localization	Mitochondrion matrix.

Images



SDS-PAGE analysis of ab125810.

SDS-PAGE - SIRT3 protein (Active) (ab125810)



The specific activity of ab125810 was determined to be 150 RLU/min/mg.

Functional Studies - SIRT3 protein (Active) (ab125810)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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