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Datasheet for ABIN3095672  
**SRRT Protein (AA 2-876) (His tag)**

### Overview

Quantity:	1 mg
Target:	SRRT
Protein Characteristics:	AA 2-876
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRRT protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence: GDSDEYDRR RRDKFRERS DYDRSRERDE RRRGDDWNDR EWDRGRERRS RGEYRDYDRN  
RRERFSPPRH ELSPQKRMR RDWDEHSSDP YHSGYEMPYA GGGGGPTYGP PQPWGHDPVH  
IMQHHVLIQ ARLGSIAEID LGVPPPVMKT FKEFLSLDD SVDETEAVKR YNDYKLDFFR  
QQMQDFFLAH KDEEWFRSKY HPDEVGKRRQ EARGALQNRL RVFLSLMETG WFDNLLLDID  
KADAIVKMLD AAVIKMEGGT ENDLRILEQE EEEEQAGKPG EPSKKEEGRA GAGLGDGERK  
TNDKDEKED GKQAENDSSN DDKTKKSEGD GDKEEKEDS EKEAKKSSKK RNRKHSGDSDS  
FDEGSVSESE SESESGQAE EKEEAEAL EKEKPKEE EW EKPDAAGLE CKPRPLHKTC  
SLFMRNIAPN ISRAEISLC KRYPGFMRVA LSEPQPERRF FRRGWVTFDR SVNIKEICWN  
LQNIRLRECE LSPGVNRDLT RRVNRINGIT QHKQIVRNDI KLAAKLIHTL DDRTQLWASE  
PGTPPLPTSL PSQNPILKNI TDYLIEEVS EEEELLGSSG GAPPEEPPKE GNPAEINVER  
DEKLIKVLDK LLLYLIVHS LDYYNTCEYP NEDEMPNRCG IIVRGPMP PP NRISHGEVLE  
WQKTFEEKLT PLLSVRESLS EEEAQKMRK DPEQEVEK FV TSNTQELGKD KWLCP LSGKK

FKGPEFVRKH IFNKHAEKIE EVKKEVAFFN NFLTDAKRPA LPEIKPAQPP GPAQILPPGL  
TPGLPYPHQT PQGLMPYGQP RPPILGYGAG AVRPAVPTGG PPYPHAPYGA GRGNDAFRG  
QGGYPGKPRN RMVRGDPRAI VEYRDLAPD DVDFD

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human SRRT Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility:

0.22 µm filtered

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## Product Details

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Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

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Target: SRRT

Alternative Name: SRRT ([SRRT Products](#))

Background: Acts as a mediator between the cap-binding complex (CBC) and the primary microRNAs (miRNAs) processing machinery during cell proliferation. Contributes to the stability and delivery of capped primary miRNA transcripts to the primary miRNA processing complex containing DGCR8 and DRISHA, thereby playing a role in RNA-mediated gene silencing (RNAi) by miRNAs. Binds capped RNAs (m7GpppG-capped RNA), however interaction is probably mediated via its interaction with NCBP1/CBP80 component of the CBC complex. Involved in cell cycle progression at S phase. Does not directly confer arsenite resistance but rather modulates arsenic sensitivity. Independently of its activity on miRNAs, necessary and sufficient to promote neural stem cell self-renewal. Does so by directly binding SOX2 promoter and positively regulating its transcription (By similarity). {ECO:0000250, ECO:0000269|PubMed:19632182}.

Molecular Weight: 101.5 kDa Including tag.

UniProt: [Q9BXP5](#)

Pathways: [Notch Signaling, Stem Cell Maintenance](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)