

Datasheet for ABIN3135197

## DROSHA Protein (AA 1-1373) (His tag)



[Go to Product page](#)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	DROSHA
Protein Characteristics:	AA 1-1373
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DROSHA protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	<p>MQGNTCHRMS YHPGRGCPRG RGGHGARPSA PAFRPQNLRL LHPQQPPAQY QYEPPSAPSS</p> <p>SYSNSQAPSF MPPRPDFVPY PPPAAPSAQG PLPPCPVRPP YPNHQMRHPF PVPPCFPPMP</p> <p>PPMPCPNPP ASGAPPGQGT FPFMVPPPSM PHPPPPVMP QQVNYQYPPG YSHSFPPPGF</p> <p>NSYQNNSSSF PPSANSSSTP HFRHLPPYSL PKAQNERRSP ERLKHYDDHR HRDHSHGGRGE</p> <p>RHRSLERRER GRSPERRRPE SRYRSDYDRG RTPPPRHSY ERSRERDRER HRHREARRSP</p> <p>SLERSYKKEY KRSGRSYALP VAPEPAGCTP ELPGEMIKTT ESWAPPENV NHRSPSREKK</p> <p>RARWEEEEKDR WSDSQGSGKE KNYTSIKEKE AEEVPPEKTE EEEEELLKPV WIRCTHSESY</p> <p>YSSDPMDQVG DSTVVGTSRL RDLYDKFEEE LGNRQEKAKA ARPPWEPPKT KLEDLESSS</p> <p>ESECETDDDS TCSSSSDSEV FDVIAEIKRK KAHPDRLHDE LWYNDPGQMN DGPLCKCSAK</p> <p>ARRTGIRHSI YPGEEAIKPC RPMTNNAAGRL FHYRITVSPP TNFLTDRPTV IEYDDHEYIF</p> <p>EGFSMFAHAP LTNIPLCKVI RFNIDYTIHF IEEMMPENFC VKGLELFSLF LFRDILELYD</p> <p>WNLKGPLFED SPPCCPRFHF MPRFVRFLPD GGKEVLSMHQ ILLYLLRCSK ALVPEEEIAN</p>
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MLQWEELEWQ KYAEECKGMI VTNPGTKPSS VRIDQLDREQ FNPEVITFPI IVHFGIRPAQ  
LSYAGDPQYQ KLWKSIVKLR HLLANSPKVK QTDKQKLAQR EEALQKIRQK NTMRREVTVE  
LSSQGFWKTG IRSDVCQHAM MLPVLTHHIR YHQCLMHLDK LIGYTFQDRC LLQLAMTHPS  
HHLNFGMNPD HARNLSNCG IRQPKYGDRK VHHMHMRKKG INTLINIMSR LGQDDPTPSR  
INHNERLEFL GDAVVEFLTS VHLYYLFPSL EEGGLATYRT AIVQNQHLM LAKKLELDRF  
MLYAHGPDLC RESDLRHAMA NCFEALIGAV YLEGSLEEAK QLFGRLLFND PDLREVWLN  
PLHPLQLQEP NTDRQLIETS PVLQKLTEFE EAIGVIFTHV RLLARAFTLR TVGFNHLTLG  
HNQRMEFLGD SIMQLVATEY LFIHFDPHHE GHLLTLLRSS VNNRTQAKVA EELGMQEYAI  
TNDKTKRPVA LRTKTLADLL ESFIAALYID KDLEYVHTFM NVCFFPRLKE FILNQDWNDP  
KSQLQQCCLT LRTEGKEPDI PLYKTLQTVG PSHARTYTV VYFKGERIGC GKGPSIQQAE  
MGAAMDALEK YNFPQMAHQK RFIERKYRQE LKEMRWEREH QEREPEEAED IKK

**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.
- Mouse Drosha 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:

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## Product Details

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.

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

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

Target: DROSHA

Alternative Name: Drosha ([DROSHA Products](#))

Background: Ribonuclease III double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DROSHA cleaves the 3' and 5' strands of a stem-loop in pri-miRNAs (processing center 11 bp from the dsRNA-ssRNA junction) to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs. Involved also in pre-rRNA processing. Cleaves double-strand RNA and does not cleave single-strand RNA. Involved in the formation of GW bodies. {ECO:0000250|UniProtKB:Q9NRR4}.

Molecular Weight: 159.8 kDa Including tag.

UniProt: [Q5HZJ0](#)

Pathways: [Regulatory RNA Pathways](#)

## Application Details

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: Protein has not been tested for activity yet. In cases in which it is highly likely that the

## Application Details

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

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)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process