

Datasheet for ABIN5710850  
**POLN Protein (AA 60-240) (His tag)**



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1 Image

## Overview

Quantity:	100 µg
Target:	POLN
Protein Characteristics:	AA 60-240
Origin:	Hepatitis E Virus (HEV)
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLN protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	EVFWNHPIQR VIHNELELYC RARSGRCLEI GAHPRSINDN PNVVHRCFLR PAGRDVQRWY TAPTRGPAAN CRRSALRGLP AADRTYCFDG FSGCNFPAET GIALYSLHDM SPSDVAEAMF RHGMTRLYAA LHLPPVLLP PGTYRTASYL LIHDGRRVVV TYEGDTSAGY NHDVSNLRSW I
Purification:	SDS-PAGE
Purity:	> 90 %

## Target Details

Target:	POLN
Alternative Name:	POLN ( <a href="#">POLN Products</a> )
Target Type:	Viral Protein

## Target Details

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**Background:** Methyltransferase displays a cytoplasmic capping enzyme activity. This function is necessary since all viral RNAs are synthesized in the cytoplasm, and host capping enzymes are restricted to the nucleus. The enzymatic reaction involves a covalent link between 7-methyl-GMP and the methyltransferase, whereas eukaryotic capping enzymes form a covalent complex only with GMP. Methyltransferase catalyzes transfer of a methyl group from S-adenosylmethionine to GTP and GDP to yield m7GTP or m7GDP. GMP, GpppG, and GpppA were poor substrates for the methyltransferase. This enzyme also displays guanylyltransferase activity to form a covalent complex, methyltransferase-m7GMP, from which 7-methyl-GMP is transferred to the mRNA to create the cap structure. Cap analogs such as m7GTP, m7GDP, et2m7GMP, and m2et7GMP inhibit the methyltransferase reaction. RNA-directed RNA polymerase plays an essential role in the virus replication. Binds to the 3'-end of the genomic RNA, probably to initiate replication ..

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**Molecular Weight:** 24.5 kDa

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**UniProt:** [P33424](#)

## Application Details

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**Application Notes:** Optimal working dilution should be determined by the investigator.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** 0.1-2 mg/mL

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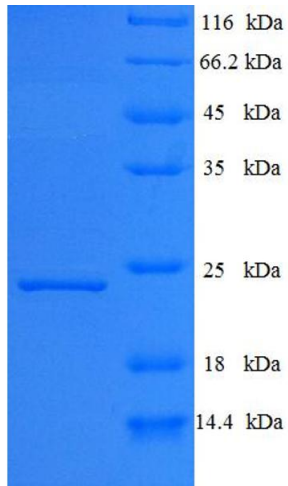
**Buffer:** 20 mM Tris-HCl based buffer, pH 8.0

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**Storage:** -80 °C, 4 °C, -20 °C

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**Storage Comment:** Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



**SDS-PAGE**

**Image 1.**