

# Recombinant human RPS7 protein

Catalog Number: ATGP1314

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-194aa

### UniProt No.

P62081

### NCBI Accession No.

NP\_001002

### Alternative Names

40S ribosomal protein S7, DBA8, S7

## PRODUCT SPECIFICATION

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### Molecular Weight

24.7 kDa (218aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 30% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

RPS7 belongs to the S3P family of ribosomal proteins and is located in the cytoplasm. RPS7 may play a role in ribosomal stress, linking ribosome biogenesis to cell death or cell cycle arrest. Also, RPS7 interacts with MDM2 and is believed to negatively regulate the MDM2-mediated degradation of p53. Recombinant human RPS7 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSHMFSSSA KIVKPNGEKP DEFESGISQA LLELEMNSDL KAQLRELNIT AAKEIEVGGG  
RKAIIFVPV PQLKSFQKIQ VRLVRELEKK FSGKHVVFIA QRRILPKPTR KSRTKNKQKR PRSRTLAVH DAILEDLVFP  
SEIVGKRIRV KLDGSRLIKV HLDKAQQNNV EHKVETFSGV YKCLTGKDVN FEFPEFQL

### General References

Malygin AA., et al. (2000) *Biochim Biophys Acta*. 1494:213-216.

Hosaka H., et al. (2001) *J Biochem*. 130:695-701.

## DATA

### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

