

# Recombinant human RPS3 protein

Catalog Number: ATGP1254

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-243aa

### UniProt No.

P23396

### NCBI Accession No.

NP\_000996.2

### Alternative Names

40S ribosomal protein S3

## PRODUCT SPECIFICATION

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### Molecular Weight

28.8 kDa (263aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

### 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

40S ribosomal protein S3, also known as RPS3, belongs to the S3P family of ribosomal proteins. RPS3 mediates the formation of the mRNA binding site 3' of the codon in the decoding site. In addition, RPS3 is involved in DNA damage recognition as shown by its affinity for abasic sites and 7, 8-dihydro-8-oxoguanine residues and its interaction with human base excision repair proteins OGG1 and Ref-1. Higher levels of expression of this gene in colon adenocarcinomas and adenomatous polyps compared to adjacent normal colonic mucosa have been observed. Recombinant human RPS3 protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MAVQISKRRK FVADGIFKAE LNEFLTRELA EDGYSGVEVR VTPTRTEIII LATRTQNVLG  
EKGRRIRELT AVVQKRFGFP EGSVELYAEK VATRGLCAIA QAESLRYKLL GGLAVRRACY GVLRFIMESG AKGCEVVVSG  
KLRGQRAKSM KFVDGLMIHS GDPVNYVDT AVRHVLLRQG VLGKVKIML PWDPTGKIGP KKPLPDHVS I VEPKDEILPT  
TPISEQGGK PEPPAMPQPV PTA

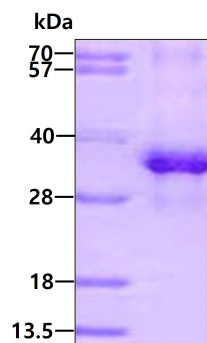
## General References

Hegde V (2006) DNA Repair. 5:810-815.

Choi S H., et al. (2006) J Biochem Mol Biol. 39:208-215.

## DATA

### SDS-PAGE



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