

# Recombinant human RPS5 protein

Catalog Number: ATGP1827

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-204aa

### UniProt No.

P46782

### NCBI Accession No.

NP\_001000

### Alternative Names

40S ribosomal protein S5, S5

## PRODUCT SPECIFICATION

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### Molecular Weight

25.3 Da (227aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM 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

40S ribosomal protein S5, also known as RPS5, is a ribosomal protein. Ribosomes, the organelles that catalyze protein synthesis, are composed of a small subunit and a large subunit that consist of over 80 distinct ribosomal proteins. RPS5 is a 204 amino acid component of the 40S complex. It exists as multiple processed pseudogenes that are scattered throughout the genome. RPS5 is expressed at variable amounts in colorectal cancer cells, suggesting a possible role in carcinogenesis. Recombinant human RPS5 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

<MGSSHHHHH SSGLVPRGSH MGS>MTEWETA APAVAETPDI KLFQKWSTDD VQINDISLQD YIAVKEYAK  
YLPHSAGRYA AKRFRKAQCP IVERLTNSMM MHGRNNGKKL MTRIVKHAF EIIHLLTGEN PLQVLVNAII NSGPREDSTR  
IGRAGTVRRQ AVDVSPLRRV NQAIWLLCTG AREAAFRNIK TIAECLADEL INAAKGSSNS YAIKKKDELE RVAKSNR

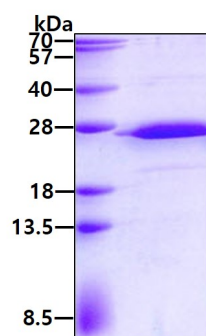
## General References

Galkin O., et al. (2007) RNA. 13:2116-2128  
Matraqkou C N., et al. (2008) J Cell Biochem. 104:1477-1490.

## DATA

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### SDS-PAGE



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