# Recombinant Human 40S ribosomal protein S18 (RPS18)

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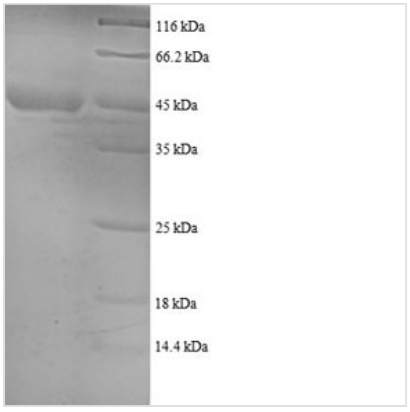
| **Product Code** | CSB-EP020385HU |
| **Relevance** | Located at the top of the head of the 40S subunit, it contacts several helices of the 18S rRNA. |
| **Abbreviation** | Recombinant Human RPS18 protein |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| **Uniprot No.** | P62269 |
| **Alias** | Ke-3 ;Ke3 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Sequence** | SLVIPEKFQHILRVLNTNIDGRRKIAFAITAIKGVGRRYAHVVLRKADIDLTKRAG ELTEDEVERVITIMQNPRQYKIPDWFLNRQKDVKDGKYSQVLANGLDNKLRED LERLKKIRAHRGLRHFWGLRVRGQHTKTTGRRGRTVGVSKKK |
| **Research Area** | Epigenetics and Nuclear Signaling |
| **Source** | E.coli |
| **Target Names** | RPS18 |
| **Expression Region** | 2-152aa |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | N-terminal GST-tagged |
| **Mol. Weight** | 44.6kDa |
| **Protein Length** | Full Length of Mature Protein |
| **Image** | |




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The region for expressing recombinant Human RPS18 contains amino acids 2-152. This RPS18 protein is expected to have a theoretical molecular weight of 44.6 kDa. The RPS18 protein was expressed in e.coli. The N-terminal GST tag was fused into the coding gene segment of RPS18, making it easier to detect and purify the RPS18 recombinant protein in the later stages of expression and purification.

The human 40S ribosomal protein S18 (RPS18) is a constituent of the small subunit (40S) of the eukaryotic ribosome. RPS18 plays a fundamental role in protein synthesis. RPS18 contributes to the formation of the ribosomal subunit, aiding in the assembly and stabilization of the small ribosomal particle. The ribosome, composed of both small and large subunits, functions as a molecular machine for translating mRNA into proteins. Research on RPS18 delves into understanding its precise role in ribosomal function, protein synthesis, and its potential implications in cellular processes and diseases associated with aberrations in translation machinery.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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