

# Recombinant Human RPS7 Protein (His Tag)

Catalog Number:PKSH032022



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

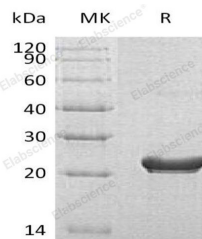
## Description

|                                    |                               |
|------------------------------------|-------------------------------|
| <b>Synonyms</b>                    | 40S ribosomal protein S7;RPS7 |
| <b>Species</b>                     | Human                         |
| <b>Expression Host</b>             | E.coli                        |
| <b>Sequence</b>                    | Met 1-Leu194                  |
| <b>Accession</b>                   | P62081                        |
| <b>Calculated Molecular Weight</b> | 23.2 kDa                      |
| <b>Observed molecular weight</b>   | 23 kDa                        |
| <b>Tag</b>                         | C-His                         |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.   |
| <b>Shipping</b>       | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| <b>Formulation</b>    | Supplied as a 0.2 µm filtered solution of 20mM Acetate, 8% Sucrose, 50mM NaCl, 0.05% Tween 80, 0.05% Tween 20, pH 4.0.                           |
| <b>Reconstitution</b> | Not Applicable   |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

40S ribosomal protein S7(RPS7) belongs to the S7E family of ribosomal proteins. It is phosphorylated by NEK6 during post-translational modification. RPS7 is located in the cytoplasm, binds IPO9 with high affinity. It also can interact with NEK6. As is required for rRNA maturation and typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. The abnormal expression of RPS7 may cause Diamond-Blackfan anemia 8.

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