

RPS19 Protein, Human, Recombinant

General Information

Synonyms:	RPS19;40S Ribosomal Protein S19
Protein Construction:	Pro2-His145
Species:	Human
Expression Host:	E. coli
Accession:	P39019
Molecular Weight:	16 KDa (reducing condition)
AA Sequence:	Pro2-His145

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, 1 mM EDTA, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

40S Ribosomal Protein S19 (RPS19) is a ribosomal protein that belongs to the ribosomal protein S19e family. RPS19 is located in the nucleoli, and higher level expression is seen in colon carcinoma tissue than normal colon tissue. It is required for pre-rRNA processing and maturation of 40S ribosomal subunits. RPS19 plays a role in many biological processes, such as endocrine pancreas development, erythrocyte differentiation, mRNA metabolic process. Defects in RPS19 are the cause of Diamond-Blackfan anemia type 1 (DBA1), which is a form of Diamond-Blackfan

anemia, a congenital non-regenerative hypoplastic anemia that usually presents early in infancy. Diamond-Blackfan anemia is characterized by a moderate to severe macrocytic anemia, erythroblastopenia, and an increased risk of malignancy.

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