



Recombinant Protein Technical Manual

Recombinant Human RPS19 Protein

RPES1639

Product Data:

Product SKU: RPES1639

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P39019

Protein Information:

Molecular Mass: 16.1 kDa

AP Molecular Mass: 16 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 1mM EDTA, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: 40S Ribosomal Protein S19; RPS19

Immunogen Information:

Sequence: Pro2-His145

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, erythroidopenia, and an increased risk of malignancy.