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## Product Data Sheet

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Product Name: RPS19 Human  
 Cat. No.: GP24438  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ribosomal protein S19; DBA; DBA1; S19; 40S ribosomal protein S19; RPS19.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMPGVTVK DVNQQEFVRA LAAFLKKSGK LKVPEWVDTV KLAHKELAP YDENWFYTRA ASTARHLYLR GGAGVGSMTK IYGGQRNGV MPSHF SRGSK SVARRVLQAL EGLKMVEKDQ DGGKRKLTPQG QRDLDRIAGQ VAAANKKH.		
Formulation	The RPS19 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol and 2mM DTT.		

### Introduction

Ribosomal Protein S19, also known as RPS19, is a part of the S19E family of ribosomal proteins. RPS19 is located in the cytoplasm and required for pre-rRNA processing and maturation of 40S ribosomal subunits. Mutations in RPS19 trigger Diamond-Blackfan anemia, a constitutional erythroblastopenia characterized by absent or decreased erythroid precursors, in a subset of patients.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

RPS19 Human Recombinant produced in E. coli is a single polypeptide chain containing 168 amino acids (1-145) and having a molecular mass of 18.4kDa. RPS19 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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