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## Product Data Sheet

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Product Name: RPS10 Human  
 Cat. No.: GP24433  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DBA9; S10; 40S ribosomal protein S10; RPS10.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMLMPKKN RIAIYELLFK EGVMVAKKDV HMPKHPELAD KNVPLHVMK AMQSLKSRGY VKEQFAWRHF YWYLTNEGIQ YLRDYLHLPP EIVPATLRRS RPETGRPRPK GLEGERPARL TRGEADRDTY RRSVPPGAD KKAEEAGAGSA TEFQFRGGFG RGRGQPPQ.		
Formulation	RPS10 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 30% glycerol and 1mM DTT.		

### Introduction

Ribosomes (the organelles that catalyze protein synthesis) consist of a small 40S subunit and a large 60S subunit. Jointly these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. RPS10 which is located in the cytoplasm and a part of the S10E family of ribosomal proteins, is a ribosomal protein that is a component of the 40S subunit. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found.

### 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

RPS10 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 188 amino acids (1-165 a.a) and having a molecular mass of 21kDa.

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

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RPS10 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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