Recombinant human RPS10 protein

Catalog Number: ATGP2031

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-165aa

UniProt No.
P46783

NCBI Accession No.
NP_001190174

Alternative Names
40S ribosomal protein S10, DBA9, S10

PRODUCT SPECIFICATION

Molecular Weight
21 kDa (188aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. RPS10 is a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S10E family of ribosomal proteins. It is located in the cytoplasm. 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. As is typical for genes encoding ribosomal proteins,

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there are multiple processed pseudogenes of this gene dispersed through the genome. Recombinant human RPS10 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

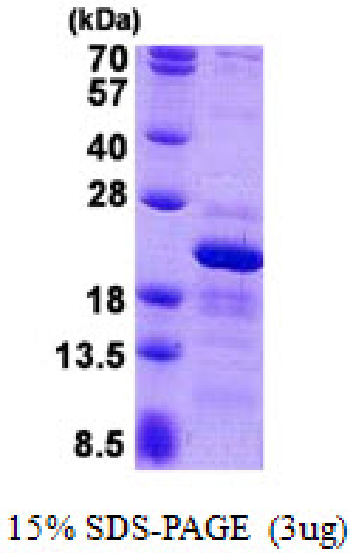
MGSSHHHHHH SSGLVPRGSH MGSMLMPKKN RIAIYELLFK EGVMVAKKDV HMPKHPELAD KNVPNLHVMK AMQSLKSRGY VKEQFAWRHF YWYLTNEGIQ YLRDYLHLPP EIVPATLRRS RPETGRPRPK GLEGERPARL TRGEADRDTY RRSAVPPGAD KKAEAGAGSA TEFQFRGGFG RGRGQPPQ

General References

Yu Y, Ji H, et al. (2005). Protein Sci. 14(6):1438-46.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.