Recombinant human RPS3 protein

Catalog Number: ATGP1254

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-243aa

UniProt No.
P23396

NCBI Accession No.
NP_000996.2

Alternative Names
40S ribosomal protein S3

PRODUCT SPECIFICATION

Molecular Weight
28.8 kDa (263aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity
> 90% 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
40S ribosomal protein S3, also known as RPS3, belongs to the S3P family of ribosomal proteins. RPS3 mediates the formation of the mRNA binding site 3' of the codon in the decoding site. In addition, RPS3 is involved in DNA damage recognition as shown by its affinity for abasic sites and 7, 8-dihydro-8-oxoguanine residues and its interaction with human base excision repair proteins OGG1 and Ref-1. Higher levels of expression of this gene in colon adenocarcinomas and adenomatous polyps compared to adjacent normal colonic mucosa have been observed. Recombinant human RPS3 protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

Amino acid Sequence

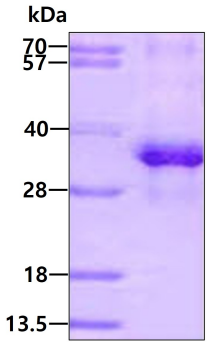
<MGSSHHHHHH SSGLVPRGSH> MAVQISKKRK FVADGIFKAE LNEFLTRELA EDGYSGVEVR VTPTRTEIII LATRTQNVLG EKGRRIRELT AVVQKRFGFP EGSVELYAEK VATRGLCAIA QAESLRYKLL GGLAVRRACY GVLRFIMESG AKGCEVVVSG KLRGQRAKSM KFVDGLMIHS GDPVNYYVDT AVRHVLLRQG VLGIKVKIML PWDPTGKIGP KKPLPDHVSI VEPKDEILPT TPISEQKGGK PEPPAMPQPV PTA

General References

Hegde V (2006) DNA Repair. 5:810-815.
Choi S H., et al. (2006) J Biochem Mol Biol. 39:208-215.

DATA

SDS-PAGE



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