

Recombinant human RPS3A protein

Catalog Number: ATGP1578

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-264aa

UniProt No.

P61247

NCBI Accession No.

NP_000997

Alternative Names

40S ribosomal protein S3a, FTE1, MFTL, S3A

PRODUCT SPECIFICATION

Molecular Weight

32.5 kDa (288aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

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 S3a, also known as RPS3A, belongs to the S3AE family of ribosomal proteins. 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. This protein is a ribosomal protein that is a component of the 40S subunit and is located in the cytoplasm. Disruption of the gene encoding rat ribosomal protein S3a, also named v-fos transformation effector protein, in v-fos-transformed rat cells results in reversion of the transformed phenotype. Recombinant human RPS3A protein, fused to His-tag

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at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MAVGKN KRLTKGGKKG AKKKVVDPFSS KDWYDVKAP AMFNIRNIGK
TLVTRTQGTK IASDGLKGRV FEVSLADLQN DEVAFRKFKL ITEDVQGNK LTNFHGMDLT RDKMCSMVKK WQTMIEAHVD
VKTTDGYLLR LFCVGFTKKR NNQIRKTSYA QHQVVRQIRK KMMEIMTREV QTNDLKEVVN KLIPDSIGKD IEKACQSIYP
LHDVFVRKVK MLKKPKFELG KLMELHGEES SSGKATGDET GAKVERADGY EPPVQESV

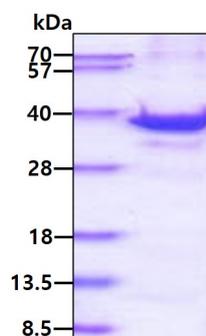
General References

Wool IG., et al. (1995) *Biochem Cell Biol.* 73(11):933-47.

Nolte D., et al. (1996) *Gene.* 169(2): 179-85.

DATA

SDS-PAGE



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