

# Recombinant human EMG1 protein

Catalog Number: ATGP1617

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-244aa

### UniProt No.

Q92979

### NCBI Accession No.

NP\_006322

### Alternative Names

Ribosomal RNA small subunit methyltransferase NEP1, C2F, Grcc2f, NEP1

## PRODUCT SPECIFICATION

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### Molecular Weight

29.1 kDa (267aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 95% 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

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### Description

EMG1 nucleolar protein homolog, also known as EMG1, is a 244 amino acid protein that is thought to be involved in ribosome biogenesis. Localized to the nucleolus, EMG1 participates in pre-18S rRNA processing and may play an important role in the assembly of the small ribosomal subunit, possibly controlling methylation during ribosome synthesis. A mutation in this gene has been associated with Bowen-Conradi syndrome. Recombinant human EMG1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

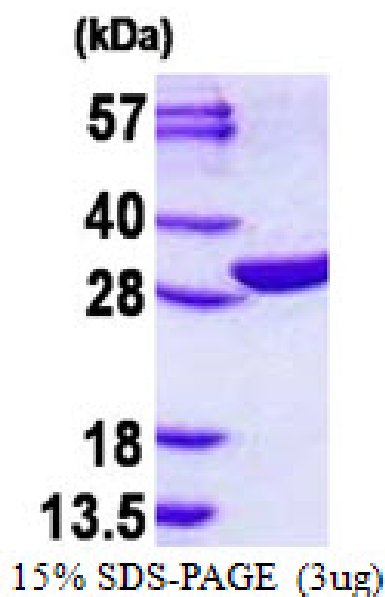
MGSSHHHHHH SSGLVPRGSH MGSMAAPSDG FKPRERSGGE QAQDWDALPP KRPRLGAGNK IGGRRLLIVL EGASLETVKV  
GKTYELLNCD KHKSILLKNG RDPGEARPD I THQSLLMLMD SPLNRAGLLQ VYIHTQKNVL IEVNPQTRIP RTFDRFCGLM  
VQLLHKLSVR AADGPQKLLK VIKNPVSDHF PVGCMKVGTS FSIPVSDVR ELVPSSDPIV FVVGAFAHGK VSVEYTEKMGV  
SISNYPLSAA LTCAKLTTAF EEVWGVI

### General References

Buchhaupt M., et al. (2001) Mol Genet Genomics. 276: 273-284  
Liu P C., et al. (2001) Mol Biol Cell. 12: 3644-3657.

## DATA

### SDS-PAGE



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