

Recombinant Human EMG1 Nucleolar Protein Homolog(*S. cerevisiae*), His-tagged

Cat. No. EMG1-6938H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EMG1 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	<i>E. coli</i>
ProteinLength	1-244aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	29.1 kDa (267aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAAPSDG FKPRERSGGE QAQDWDALPP KRPRLGAGNK IGRRRLIVVL EGASLETVKV GKTYELLNCD KHKSI LLKNG RDPGEARPD I THQSLLMLMD SPLNRAGLLQ VYIHTQKNVL IEVNPQTRIP RTFDRFCGLM VQLLHKLSVR AADGPQKLLK VIKNPVSDHF PVGCMKVGTS

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	FSIPVVSDVR ELVPSSDPIV FVVGAFAHGK VSVEYTEKMOV SISNYPLSAA LTCAKLTAF EEVWGV
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	EMG1 EMG1 nucleolar protein homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	EMG1
Synonyms	EMG1; EMG1 nucleolar protein homolog (S. cerevisiae); ribosomal RNA small subunit methyltransferase NEP1; C2F; Grcc2f; NEP1; essential for mitotic growth 1; ribosome biogenesis protein NEP1; 18S rRNA Psi1248 methyltransferase; 18S rRNA (pseudouridine-N1-)-methyltransferase NEP1; FLJ60792;
Gene ID	10436
mRNA Refseq	NM_006331
Protein Refseq	NP_006322
MIM	611531

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UniProt ID	Q92979
Chromosome Location	12p13
Pathway	Ribosome biogenesis in eukaryotes, organism-specific biosystem; Ribosome biogenesis in eukaryotes, conserved biosystem;
Function	RNA binding; methyltransferase activity; rRNA (pseudouridine) methyltransferase activity; rRNA binding; transferase activity;

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