
Product Data Sheet

Product Name: EMG1 Human
 Cat. No.: GP23400
 Batch No.: 1

Product Data

| | | | |
|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | E.coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | EMG1 nucleolar protein homolog (<i>S. cerevisiae</i>); 18S rRNA Psi1248 methyltransferase; 18S rRNA (pseudouridine-N1-)-methyltransferase NEP1; Ribosome biogenesis protein NEP1; essential for mitotic growth 1; ribosomal RNA small subunit methyltransferase NEP1; Protein C2f; BWCNS; Grcc2f; NEP1; EC 2.1.1.-. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSMAAPSDG FKPRERSGGE QAQDWDALPP KRPRLGAGNK IGGRRLLIVL EGASLETVKV GKTYELLNCD KHKSILLKNG RDPGEARPD I THQSLMLMD SPLNRAGLLQ VYIHTQKNVL IEVNPQTRIP RTFDRFCGLM VQLLHKLSVR AADGPQKLLK VIKNPVSDHF PVGCMKVGTS FSIPVSDVR ELVPSSDPIV FVVGAFAHGK VSVEYTEKMOV SISNYPLSAA LTCAKLTTAF EEVWGV I | | |
| Formulation | The EMG1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 20% glycerol. | | |

Introduction

EMG1 is a 244 aa protein which has a role in ribosome biogenesis. EMG1 is a key protein in the small ribosomal subunit assembly, controls methylation during ribosome synthesis and takes part in pre-18S rRNA processing. EMG1 is localized to the nucleolus and a mutation in this gene is linked with Bowen-Conradi syndrome.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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EMG1 Human Recombinant produced in E. coli is a single polypeptide chain containing 267 amino acids (1-244) and having a molecular mass of 29.1kDa. EMG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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