

Recombinant Mouse Emg1 Protein, MYC/DDK-tagged

Cat. No. Emg1-1058M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse EMG1 N1-specific pseudouridine methyltransferase (Emg1), with C-terminal MYC/DDK tag, was expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	S-adenosyl-L-methionine-dependent pseudouridine N1-methyltransferase that methylates pseudouridine at position 1248 (Psi1248) in 18S rRNA. Involved the biosynthesis of the hypermodified N1-methyl-N3-(3-amino-3-carboxypropyl) pseudouridine (m1acp 3-Psi) conserved in eukaryotic 18S rRNA. Is not able to methylate uridine at this position. Has also an essential role in 40S ribosomal subunit biogenesis independent on its methyltransferase activity, facilitating the incorporation of ribosomal protein S19 during the formation of pre-ribosomes.
Molecular Mass	27 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Emg1 EMG1 N1-specific pseudouridine methyltransferase [Mus musculus (house mouse)]

Official Symbol Emg1

Synonyms Emg1; EMG1 N1-specific pseudouridine methyltransferase; C2f; Grcc2f; ribosomal RNA small subunit methyltransferase NEP1; 18S rRNA (pseudouridine(1248)-N1)-methyltransferase; 18S rRNA (pseudouridine-N1-)-methyltransferase NEP1; 18S rRNA Psi1248 methyltransferase; EMG1 nucleolar protein homolog; gene rich cluster, C2f; nucleolar protein EMG1 homolog; probable ribosome biogenesis protein NEP1; protein C2f; ribosome biogenesis protein NEP1

Gene ID 14791

mRNA Refseq NM_013536

Protein Refseq NP_038564

UniProt ID O35130

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