

Recombinant Mouse Mettl1 Protein, Myc/DDK-tagged

Cat. No. Mettl1-4040M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length methyltransferase like 1 (Mettl1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Methyltransferase that mediates the formation of N7-methylguanine in a subset of RNA species, such as tRNAs, mRNAs and microRNAs (miRNAs). Catalyzes the formation of N7-methylguanine at position 46 (m7G46) in tRNA. Also acts as a methyltransferase for a subset of internal N7-methylguanine in mRNAs. Internal N7-methylguanine methylation of mRNAs regulates translation. Also methylates a specific subset of miRNAs, such as let-7. N7-methylguanine methylation of let-7 miRNA promotes let-7 miRNA processing by disrupting an inhibitory secondary structure within the primary miRNA transcript (pri-miRNA). Acts as a regulator of embryonic stem cell self-renewal and differentiation.
Molecular Mass	30.6 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 [Mettl1 methyltransferase like 1 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Mettl1](#)

Synonyms METTL1; methyltransferase like 1; tRNA (guanine-N(7)-)-methyltransferase; methyltransferase-like 1; tRNA(m7G46)-methyltransferase; methyltransferase-like protein 1; tRNA (guanine(46)-N(7))-methyltransferase; 2810012D02Rik

Gene ID [17299](#)

mRNA Refseq [NM_010792](#)

Protein Refseq [NP_034922](#)

UniProt ID [Q9Z120](#)

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