

Recombinant Mouse Dnmt1 Protein, Myc/DDK-tagged

Cat. No. Dnmt1-2620M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length DNA methyltransferase (cytosine-5) 1 (Dnmt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description This gene encodes a methyltransferase that preferentially methylates cytosines of CpG residues in hemimethylated DNA to generate fully methylated CpG base pairs during DNA replication. This enzyme plays roles in diverse cellular processes including cell cycle regulation, DNA repair, and telomere maintenance. The encoded protein is composed of an N-terminal domain with a nuclear localization sequence and replication fork-targeting domain, a DNA-binding CXXC domain, two bromo-adjacent homology domains, and a C-terminal catalytic domain. Mouse embryonic stem cells mutant for this gene are viable, but when introduced into the germ line, cause a recessive lethal phenotype with mutant embryos displaying stunted growth and developmental defects. Alternative splicing results in multiple transcript variants.

Molecular Mass 183.6 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.

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Storage	Store at -80 centigrade after receiving vials.
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	Dnmt1 DNA methyltransferase (cytosine-5) 1 [Mus musculus (house mouse)]
Official Symbol	Dnmt1
Synonyms	DNMT1; DNA methyltransferase (cytosine-5) 1; DNA (cytosine-5)-methyltransferase 1; DNA MTase Mmul; DNA methyltransferase Mmul; Dnmt; MCMT; Met1; Cxxc9; MTase; Met-1; Dnmt1o; m.Mmul; MommeD2
Gene ID	13433
mRNA Refseq	NM_010066
Protein Refseq	NP_034196
UniProt ID	P13864

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