Recombinant Mouse Dnmt3b protein, His & T7-tagged

Cat. No. Dnmt3b-1646M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Dnmt3b aa. (Ile581~Glu859 (Accession # O88509)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Ile581~Glu859
Description	This is one of two related genes encoding de novo DNA methyltransferases, which are responsible for the establishment of DNA methylation patterns in embryos. Loss of function of this gene results in severe developmental defects and loss of viability. Mutation of the related gene in humans causes immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. There is a pseudogene for this gene located adjacent to this gene in the same region of chromosome 2. Alternatively spliced transcript variants encoding multiple isoforms have been observed.
Form	Freeze-dried powder
Molecular Mass	28kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

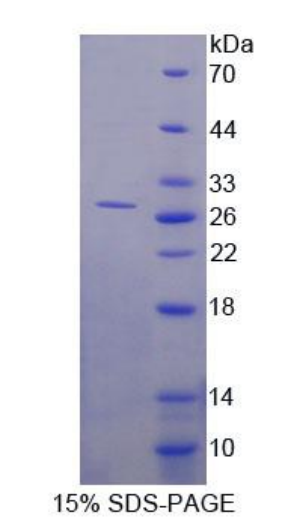
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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.
Isoelectric Point	9.3

GENE INFORMATION

Gene Name	Dnmt3b DNA methyltransferase 3B [Mus musculus (house mouse)]
Official Symbol	Dnmt3b
Synonyms	Dnmt3b; DNA methyltransferase 3B; MmuIIIB; DNA (cytosine-5)-methyltransferase 3B; DNA MTase MmuIIIB; DNA methyltransferase MmuIIIB
Gene ID	13436
mRNA Refseq	NM_001003960.4
Protein Refseq	NP_001003960.2

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UniProt ID	O88509
SDS-PAGE	

15% SDS-PAGE

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