

Recombinant Mouse Dnmt3b protein, His & T7-tagged

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

SPECIFICATION

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| 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 ddH ₂ O. |
| Isoelectric Point | 9.3 |
| GENE INFORMATION | |
| Gene Name | Dnmt3b DNA methyltransferase 3B [Mus musculus (house mouse)] |
| Official Symbol | Dnmt3b |
| Synonyms | Dnmt3b; DNA methyltransferase 3B; MmullIB; DNA (cytosine-5)-methyltransferase 3B; DNA MTase MmullIB; DNA methyltransferase MmullIB |
| Gene ID | 13436 |
| mRNA Refseq | NM_001003960.4 |
| Protein Refseq | NP_001003960.2 |

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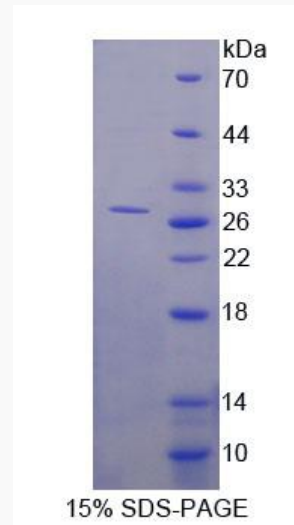
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UniProt ID

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SDS-PAGE



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