

## Recombinant Human DNMT3B Protein, His-tagged

Cat. No. DNMT3B-895H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human DNMT3B Protein (Ser145-Pro355) with His tag was expressed in 293F.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HEK293   |
| <b>ProteinLength</b>    | Ser145-Pro355  |
| <b>Description</b>      | <p>CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase which is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Eight alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined.</p> |
| <b>Form</b>             | Freeze-dried powder  |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 24.7 kDa; Accurate Molecular Mass: 30/33 kDa   |
| <b>Purity</b>           | > 90%  |

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|                       |  |
|-----------------------|--|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.   |
| <b>Stability</b>      | 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 centigrade 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. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.   |
| <b>Storage Buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.  |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.  |

## GENE INFORMATION

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|------------------------|--|
| <b>Gene Name</b>       | DNMT3B DNA (cytosine-5-)-methyltransferase 3 beta [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | DNMT3B   |
| <b>Synonyms</b>        | DNMT3B; DNA (cytosine-5-)-methyltransferase 3 beta; DNA (cytosine-5)-methyltransferase 3B; DNA MTase HsallIB; DNA methyltransferase HsallIB; ICF; ICF1; M.HsallIB; |
| <b>Gene ID</b>         | 1789   |
| <b>mRNA Refseq</b>     | NM_001207055   |
| <b>Protein Refseq</b>  | NP_001193984   |

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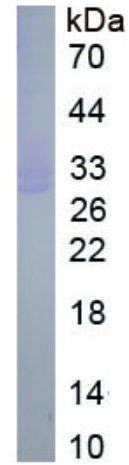
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MIM 602900

UniProt ID Q9UBC3



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