

Recombinant Human DNMT3B Protein, His&GST-tagged

Cat. No. DNMT3B-1360H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNMT3B Protein (Glu206-Pro355) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu206-Pro355
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 46.7 kDa Accurate Molecular Mass: 47&44&36 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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

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MIM 602900

UniProt ID Q9UBC3



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