

Active Recombinant Full Length Human DNMT3B Protein, C-Flag-tagged

Cat. No. DNMT3B-334HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DNMT3B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	10mM NaCl, 20 mM Phosphate buffer, pH7.6.
Bio-activity	Surface Plasmon Resonance (SPR)
Molecular Mass	95.6 kDa
AA Sequence	MKGDTRHLNGEEDAGGREDSSILVNGACSDQSSDSPPILEAIRTPAIRGRRSSRLSK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

REVSSLLSYTQDL TGDGDGEDGDGSDTPVMPKLFRETRTRSESPAVRTRNNNSVS
 SRERHRPSRSTRGRQGRNHVDESPVEF PATRSLRRRATASAGTPWSPSPSSYLT
 IDLTDDTEDTHGTPQSSSTPYARLAQDSQQGGMESQVEADSG DGDSSEYQDGK
 EFGIGDLVWGKIKGFSWWPAMVVSWKATSKRQAMSGMRWVQWFGDGKFSEVSA
 DKLVAL GLFSQHFNLATFNKLVSYRKAMYHALEKARVRAGKTFPSSPGDSLEDQLK
 PMLEWAHGGFKPTGIEGLKP NNTQPVVNKSIVRRAGSRKLESRKYENKTRRRAD
 DSATSDYCPAPKRLKTCYNNNGKDRGDEDQSREQM ASDVANNKSSLEDGCLSCG
 RKNPVSFHPLFEGGLCQTCRDRFLELFMYDDDDGYQSYCTVCCEGRELLC SNTS
 CCRCFCVECLEVLVGTGTAAEAKLQEPWSCYMCLPQRCHGVLRRRKDWNVRLQA
 FFTSDTGLEYEA PKLYPAIPAARRRPIRVLSLFDGIATGYLVKLKELGIKVGKYVASEVC
 EESIAVGTVKHEGNIKYVNDVRN ITKKNIEEWGPFDLVIGGSPCNDLSNVNPARKGL
 YEGTGRLFFEFYHLLNYSRPKEGDDRPFFWMFENVV AMKVGDKRDISRFLECNPV
 MIDAIVSAAHRARYFWGNLPGMNRPVIAASKNDKLELQDCLEYNRIAKLKK VQTITTK
 SNSIKQGKNQLFPVVMNGKEDVLWCTELERIFGFPVHYTDVSNMGRGARQKLLGRS
 WSPVIR
 HLFAPLKDYFACETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell -

Pluripotency

Protein Pathways Cysteine and methionine metabolism, Metabolic pathways

Full Length Full L.

GENE INFORMATION

Gene Name DNMT3B DNA methyltransferase 3 beta [Homo sapiens (human)]

Official Symbol DNMT3B

Synonyms ICF; ICF1; FSHD4; M.HsaIIIB

Gene ID 1789

mRNA Refseq NM_006892.4

Protein Refseq NP_008823.1

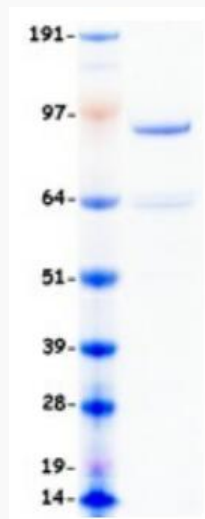
MIM 602900

UniProt ID Q9UBC3

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Coomassie blue staining of purified DNMT3B protein.

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