

Product datasheet for TP323206

DNMT3B (NM_006892) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human DNA (cytosine-5-)-methyltransferase 3 beta (DNMT3B), transcript variant 1, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC223206 representing NM_006892
Red=Cloning site **Green**=Tags(s)

MKGDTRHLNGEEDAGGREDSILVNGACSDQSSDSPPILEAIRTPAIRRRSSRSLSKREVSSLLSYTQDL
TGDGDGEDGDGSDTPVMPKLFRETRRSESPAVRTRNNNSVSSRERHRPSRSTRGRQGRNHVDESPVE
F
PATRSLRRRATASAGTPWSPSSYLTIDLTDDTEDTHGTPQSSSTPYARLAQDSQQGGMESPQVEADSG
DGDSEYQDGKEFGIGDLVWGKIKGFSWWPAMVSWKATSKRQAMSGMRWWQWFGDGKFSEVSADKL
VAL
GLFSQHFNLATFNKLVSYRKAMYHALEKARVRAGKTFPSSPGDSLEDQLKPMLEWAHGGFKPTGIEGLKP
NNTQPVVNKSIVRRAGSRKLESRKYENKTRRRATDSDSADYCPAPKRLKTCYNNNGKDRGDEDQSREQ
M
ASDVANNKSSLEDGCLSCGRKNPVSFHLPLFEGGLCQTCRDRFLELFYMYDDDGYQSYCTVCCEGRELLLC
SNTSCRCFCVECLEVLVGTGTAEEAKLQEPWSCYMCLPQRCHGVLRRRKDWNVRLQAFFTSDTGLEIEA
PKLYPAIPAARRRPIRVLSLFDGIATGYLVLKELGKIKVGYVASEVCEEIAVGTVKHEGNIKYVNDVRN
ITKKNIEEWGPFDLVIGGSPCNDLSNVNPARKGLYEGTGRLFFEFYHLLNYSRPKEGDDRPFFWMFENVV
AMKVGDKRDISRFLECNPVMIDAIVSAAHRARYFWGNLPGMNRPVIAASKNDKLELQDCLEYNRIAKLKK
VQTITTKSNSIKQGNQLFPVVMNGKEDVLWCTELERIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIR
HLFAPLKDYFACE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 95.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

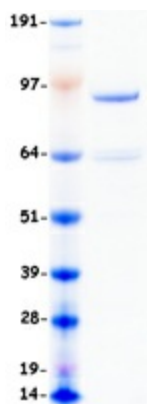
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 20 mM PB, pH 7.6, 10 mM NaCl



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Bioactivity:	Surface Plasmon Resonance (SPR) (PMID: 27468168)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_008823
Locus ID:	1789
UniProt ID:	Q9UBC3
RefSeq Size:	4353
Cytogenetics:	20q11.21
RefSeq ORF:	2559
Synonyms:	ICF; ICF1; M.HsaIIIB
Summary:	<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. [provided by RefSeq, May 2011]</p>
Protein Families:	Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways

Product images:

Coomassie blue staining of purified DNMT3B protein (Cat# TP323206). The protein was produced from HEK293T cells transfected with DNMT3B cDNA clone (Cat# [RC223206]) using MegaTran 2.0 (Cat# [TT210002]).