

Recombinant Full Length Zebrafish DNMT5 Protein, C-His tagged

Cat. No. DNMT5-2683Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Zebrafish DNMT5 Protein with His tag was expressed in HEK293.
Species	Zebrafish
Source	HEK293
Description	Predicted to enable DNA (cytosine-5-)-methyltransferase activity; DNA binding activity; and metal ion binding activity. Predicted to act upstream of or within DNA methylation and regulation of gene expression. Predicted to be located in nucleus. Is expressed in several structures, including brain; digestive system; head; musculature system; and pleuroperitoneal region. Human ortholog(s) of this gene implicated in several diseases, including acute myeloid leukemia; autoimmune disease (multiple); carcinoma (multiple); immunodeficiency-centromeric instability-facial anomalies syndrome 1; and thymoma. Orthologous to human DNMT3B (DNA methyltransferase 3 beta) and DNMT3L (DNA methyltransferase 3 like).
Molecular Mass	The protein has a calculated MW of 148 kDa.
AA Sequence	MPRRRSSRLRCPKQQIKNGKQNSNNAFTCNPATMCFIKRYASSTSDCGSVSKNPALDQKYWEDITAICRQTPYCLYLYHGVEIENDKKASVLLLGFFDEDTGKNKIRLLDVVYP TKESTEDICNYILDLLRKIGIPISNMAILYSDFPDHEHLVAGLQLMKAIEIVSLCGLTDLT GQVCHSGVEKIEFSDLILNLIIEIYKHFPSPADLQALLEDVEGSDIDNLTSQCSLFWRII

 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

KKISLAWSHLEKYFGSLDTEEEAVCLLLEDPKIKLNVFLTHALQPLCDFQEIIDQGAS
 VLQLLDASKLLRLYTQSFLRPKAAEYFHRRGKTSLVQETVGHLPERGEVAVGEQAA
 DFLQQHSEELSDYLETFHRSIISFYTTVTNIVKRLPLPDSTLRNLSVLSPGKKLEVT
 GKMVQDLGIGFGVCSENVSLKDEFLEYQFIDESDAQPADQSMKQYWKTELIMGK
 ASSFGKVILSLLALPTTLKKEQNFERLFQHTDNIKRKKLKDCKKHVSEDDVTDSSSYK
 SAPSHLSPETQDVIDLGEEEDVEPMEVEDTLPVSDLNTESQNDTKGNCPNVSSNDD
 DDKCSSSSSHDDYSSSDDDDDGDVIWREKGKGNNSCHNNEQTKNPYKGSYIVGEMV
 WGPLEGFGLWPGLVQSWDSRKPCGSMRKVFFFGNSMQSEIQADDLTPFFSFAKCF
 SSNSFATVATYKDAIFNSLQVASRRSRMFFSPDSDMDELLRVMLNWAFFGGFKPSG
 EDGLRPQSECNELVFTPRSVNGNDGPSSNFKDHREKLFNLTVSLNKLPESLDLHRG
 SIDIGKTHVYRKFMLSKRSLRPLQSREKKYTHWKRYLNDMESMKVDSRQNSQERYE
 MVHAFLENKMDIEEFCLSCGSTFVDIIHPLFEGSLCVKCKFNFETETLYRYDEDGYQSY
 CTVCCSGMEVILCGHDSCCRCYCVDCLDILVGKGTQKQLKNVDPWTCYLCAPETSS
 GALKPRHDWSIRVQELFANNSAMQFEPHRVYPSIPADQRRPVRVLSLFDGIATGYLV
 LRD LGFKVEKYVASEVDEESVTISMVNHEGKITYVDDVKKITRKHIDKWGPFDLLIGG
 SPCNDLCTVNPGRKGLFEGSGRLFFEYYRLLNVLPKEDDPRPFFWLFENVVLMEN
 RVRADISRFLCNPVLIDAVKVSPAHRARYFWGNIPGMNRPPIASQKDKVSLQDCLD
 GGRTAKYEKIRTITTRPNILRPGIDDRHYPIVMNGKDDSLWITEIEKIFGFPHKYTDVK
 NLGRMQRQRVLGKSWSPVIRHLLAPLKDYFACDEFPAKHHHHHHHH

Endotoxin	< 1 EU/μg by LAL
Purity	> 80% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.11 mg/mL
Storage Buffer	Sterile PB, 500 mM NaCl, 1% SKL, pH 7.4.

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Full Length
Full L.

GENE INFORMATION

Gene Name

dnmt3bb.3 DNA (cytosine-5-)-methyltransferase beta, duplicate b.3 [Danio rerio (zebrafish)]

Official Symbol

DNMT5

Synonyms

dnmt3bb.3; DNA (cytosine-5-)-methyltransferase beta, duplicate b.3; dnmt5; dnmt3-2; wu:fc08a10; zgc:136325; DNA (cytosine-5-)-methyltransferase beta, duplicate b.3; DNA methyltransferase dnmt5; DNA (cytosine-5-)-methyltransferase 5; dnmt3b4; EC 2.1.1.37

Gene ID

323723

mRNA Refseq

NM_001020479

Protein Refseq

NP_001018315

UniProt ID

Q588C5

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