

Recombinant Full Length Human DNMT3A Protein, GST-tagged

Cat. No. DNMT3A-4049HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DNMT3A full-length ORF (NP_072046.2, 1 a.a. - 912 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	912 amino acids
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 that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. [provided by RefSeq, Mar 2016]
Molecular Mass	128.3 kDa
AA Sequence	MPAMPSSGPGDTSSSAAEREEDRKDGEEQEEPRGKEERQEPSTTARKVGRPGRK RKHPPVESGDTPKDPAVISKSPSMAQDSGASELLPNGDLEKRSEPQPEEGSPAGG QKGGAPAEGEGAAETLPEASRAVENGCTPKEGRGAPAEAGKEQKETNIESMKME GSRGRLRGGLGWESSLRQRPMPRLTFQAGDPYYISKRKRDEWLRWKREA EKKA KVIAGMNAVEENQGPGESQKVEEASPPAVQQPTDPASPTVATTPEPVGSDAGDKN

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ATKAGDDEPEYEDGRGFGIGELVWGKLRGFSWWPGRIVSWWMTGRSRAAEGTR
 WVMWFGDGKFSVVCVEKLMPLSSFCSAFHQATYNKQPMYRKAIYEVLVQVASSRAG
 KLFPVCHDSDESDTAKAVEVQNKPMIEWALGGFQPSGPKGLEPPEEEKNPYKEVYT
 DMWVEPEAAAYAPPPAKKPRKSTAEKPKVKEIIDERTRERLVYEVQRQCRNIEDICI
 SCGSLNVTLEHPLFVGGMCQNCKNCFLECAQYDDDDGYQSYCTICCGGREVL MCG
 NNNCCRCFCVCEVDLLVGPAAQAIAIKEDPWNCYMC GHKGTYGLLRREDWPSR
 LQMFFANNHDQEFDPKVPVPAEKRPKPIRVLSLFDGIATGLLVKDLGIQVDRYIA
 SEVCEDSITVGMVRHQGKIMYVGDVRSVTQKHIQEWGPFDLVIGGSPCNDLSIVNPA
 RKGLYEGTGRLFFEFYRLLHDARPKEGDDRPFFWLFENVVAMGVSDKRDISRFLS
 NPVMIDAKEVSAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIAKFSKVR
 TITTRSNSIKQGKDQHFPVMNEKEDILWCTEMERVFGFPVHYTDVSNMSRLARQR
 LLGRSWSVPVIRHLFAPLKEYFACV

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

DNMT3A DNA (cytosine-5-)-methyltransferase 3 alpha [Homo sapiens]

Official Symbol

DNMT3A

Synonyms

DNMT3A; DNA (cytosine-5-)-methyltransferase 3 alpha; DNA (cytosine-5)-

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methyltransferase 3A; DNA MTase Hsa11A; DNA cytosine methyltransferase 3A2; DNMT3A2; M.Hsa11A;

Gene ID 1788

mRNA Refseq NM_022552

Protein Refseq NP_072046

MIM 602769

UniProt ID Q9Y6K1

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