

Recombinant Full Length Human DNMT3A Protein, C-Flag-tagged

Cat. No. DNMT3A-1122HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DNMT3A 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 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	101.7 kDa
AA Sequence	MPAMPSSGPGDTSSSAAEREEDRKDGEEQEPRGKEERQEPSTTARKVGRPGRK RKHPPVESGDTPKDPV VISKSPSMAQDSGASELLPNGDLEKRSEPQPEEGSPAGG QKGGAPAELEGAAETLPEASRAVENGCCPK EGRGAPAEAGKEQKETNIESMKM EGSRGRLRGGLGWESSLRQRPMPRLTFQAGDPYYISKRRKDEWLARW KREAEEK AKVIAGMNAVEENQGPGESQKVEEASPPAVQQPTDPASPTVATTPEPVGSDAGDK NATKAGDD EPEYEDGRGFGIGELVWGKLRGFSWWPGRIVSWWMTGRSRAAEGT

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RWVMWFGDGKFSVVCVEKLMPLSSF CSAFHQATYNKQPMYRKAIYEV LQVASSRA
 GKLFPVCHDSDES DTAKAVEVQN KPMIEWALGGFQPSGPK GLEPPEEEKNPYKEV
 YTDMWVEPEAAAYAPPPPAKKPRKSTAEKPKVKEIIDERTRERLVYEV RQKCRNI ED
 ICISCGSLNVTLEHPLFVGGM CQNCKNCFLECA YQYDDDGYSYCTICCGGREVLM
 CGNNNCCRCFCV ECVDLLVGPGAAQA AIEDPWNCYMC GHKGT YGLLRREDWP
 SRLQMFFANNHDQEFDP PKVYPPVPAEK RKPIRVLSLFDGIATGLLV LKDLGIQVDR
 YIASEVCEDSITVGMVRHQ GKIMYVGDVRSVTQ KHIQEWGP FDLVIGGSPCNDLSIV
 NPARKGLYEGTGRLFFEFY RLLHDARPKEGDDRPF FFLFENVVAMGVSDKRD IS R
 FLESNPVMIDAKEVSA AHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIAKF
 SKVRTITTRS NSI KQGKDQHFPVFMNEKEDILWCTEMERVFGFPVHYTDVSNMSRL
 ARQRL LGRSWSVPVIRHLFAPLKEYFA
 CVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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
Protein Pathways	Cysteine and methionine metabolism, Metabolic pathways
Full Length	Full L.

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GENE INFORMATION

Gene Name DNMT3A DNA methyltransferase 3 alpha [Homo sapiens (human)]

Official Symbol DNMT3A

Synonyms TBRS; HESJAS; DNMT3A2; M.HsaIIIA

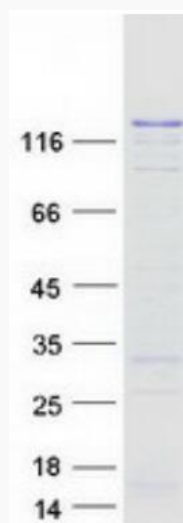
Gene ID 1788

mRNA Refseq NM_022552.5

Protein Refseq NP_072046.2

MIM 602769

UniProt ID Q9Y6K1



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Coomassie blue staining of purified DNMT3A protein.

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