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	MPAMPSSGPGDTSSSAAEREEDRKDGEEQEEPRGKEERQEPSTTARKVGRPGRK RKHPPVESGDTPKDPA VISKSPSMAQDSGASELLPNGDLEKRSEPQPEEGSPAGG QKGGAPAEGEGAAETLPEASRAVENGCCTPK EGRGAPAEAGKEQKETNIESMKM EGSRGRLRGGLGWESSLRQRPMPRLTFQAGDPYYISKRKRDEWLARW KREAEKK AKVIAGMNAVEENQGPGESQKVEEASPPAVQQPTDPASPTVATTPEPVGSDAGDK NATKAGDD EPEYEDGRGFGIGELVWGKLRGFSWWPGRIVSWWMTGRSRAAEGT

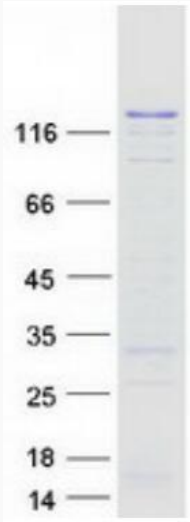
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	RWVMWFGDGKFSVVCVEKLMPLSSF CSAFHQATYNKQPMYRKAIYEVLQVASSRA GKLFPVCHDSDESDTAKAVEVQNKPMIEWALGGFQPSGPK GLEPPEEEKNPYKEV YTDMWVEPEAAAYAPPPPAKKPRKSTAEKPKVKEIIDERTRERLVYEVRQKCRNI ED ICISCGSLNVTLEHPLFVGGMCQNCKNCFLECAYQYDDDGYQSYCTICCGGREVLM CGNNNCCRCFCV ECVDLLVGPGAAQAAIKEDPWNCYMCGHKGTYGLLRRREDWP SRLQMFFANNHDQEFDPPKVYPPVPAEK RKPIRVLSLFDGIATGLLVLKDLGIQVDR YIASEVCEDSITVGMVRHQGKIMYVGDVRSVTQKHIQEWGP FDLVIGGSPCNDLSIV NPARKGLYEGTGRLFFEFYRLLHDARPKEGDDRPFFWLFENVVAMGVSDKRDIS R FLESNPVMIDAKEVSAAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIAKF SKVRTITTRSNSI KQGKDQHFPVFMNEKEDILWCTEMERVFGFPVHYTDVSNMSRL ARQRLLGRSWSVPVIRHLFAPLKEYFA 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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