

Active Recombinant Full Length Human DNMT3A Protein, Flag-tagged

Cat. No. DNMT3A-01HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length human DNA (cytosine-5-)-methyltransferase 3 alpha (DNMT3A), transcript variant 3, fused with C-terminal Flag tag, 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.

Bio-activity

DNMT3A activity verified in a biochemical assay: DNMT3A (DNA (cytosine-5-)-methyltransferase 3 alpha) is a DNA methyltransferase that is thought to function in de novo methylation, rather than maintenance methylation. It modifies DNA in a non-processive manner and also methylates non-CpG sites. Varying concentrations of DNMT3A were added to a microplate containing a bound methyltransferase substrate. After incubation, the resulting methylated DNA residues were detected immunologically and a colorimetric signal was generated and measured.

Surface Plasmon Resonance (SPR)

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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 µg/mL as determined by microplate BCA method.
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Full Length	Full L.

GENE INFORMATION

Gene Name	DNMT3A DNA methyltransferase 3 alpha [Homo sapiens (human)]
Official Symbol	DNMT3A
Synonyms	DNMT3A; DNA methyltransferase 3 alpha; TBRS; HESJAS; DNMT3A2; M.HsaIIIA; DNA (cytosine-5)-methyltransferase 3A; DNA (cytosine-5-)-methyltransferase 3 alpha; DNA MTase HsaIIIA; DNA cytosine methyltransferase 3A2; cysteine methyltransferase DNMT3A; EC 2.1.1.37
Gene ID	1788
mRNA Refseq	NM_022552
Protein Refseq	NP_072046
MIM	602769

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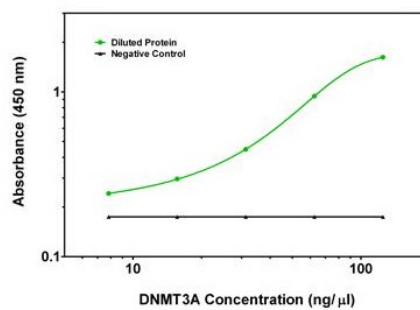
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UniProt ID

Q9Y6K1

DNA
Methyltransferase
Assay



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