

Recombinant Human DNMT3A Protein

Catalog No.: RP01971LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
	1788	Q9Y6K1-1

Tags

Synonyms

DNMT3A; DNA (cytosine-5)-methyltransferase 3A; Dnmt3a; Cysteine methyltransferase DNMT3A; DNA methyltransferase HsaIII A; DNA MTase HsaIII A; M.HsaIII A

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW

Endotoxin

Formulation

Reconstitution

Background

DNMT3A, as de novo DNA methyltransferase, is essential for regulating gene expression through cellular development and differentiation. It is required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development. It modifies DNA in a non-processive manner and also methylates non-CpG sites. The functions of DNMT3A rely on its oligomeric states and allosteric regulations between its catalytic domain and binding partners. DNMT3A variants are present in elderly healthy individuals and patients with AML in complete remission, which suggests that DNMT3A mutations may contribute to pre-leukemic clonal hematopoiesis.

Basic Information

Description

Bio-Activity

Storage

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

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