

Recombinant human DNMT3L protein

Catalog Number: ATGP2696

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-386aa

UniProt No.

Q9UJW3

NCBI Accession No.

NP_787063

Alternative Names

DNA (cytosine-5)-methyltransferase 3-like isoform 2, DNA (cytosine-5-)-methyltransferase 3-like

PRODUCT SPECIFICATION

Molecular Weight

46.2 kDa (411aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. DNMT3L is a nuclear protein with similarity to DNA methyltransferases, but is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, it does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and is thought to be required for the establishment of maternal genomic imprints. It also mediates transcriptional repression through interaction with histone deacetylase 1. Recombinant human DNMT3L protein,

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fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

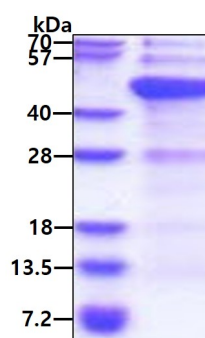
<MGSSHHHHHH SSGLVPRGSH MGSEF>MAAIP ALDPEAEPSM DVILVGSSSEL SSSVSPGTGR DLIAYEVKAN QRNIEDICIC
CGSLQVHTQH PLFEGGICAP CKDKFLDALF LYDDDGYSY CSICCSGETL LICGNPDCTR CYCFECVDSL VGPGTSGKVH
AMSNWVCYLC LPSSRSGLLQ RRRKWRSQLK AFYDRESEN LEMFETVPVW RRQPVRVLSL FEDIKKELTS LGFLESGSDP
GQLKHVVDVT DTVRKDVVEW GPFDLVYGAT PPLGHTCDRP PSWYLFQFHR LLQYARPKPG SPRPFFWMFV DNLVLNKEDL
DVASRFLEME PVTIPDVHGG SLQNAVRVWS NIPAIRSRHW ALVSEEELSL LAQNKQSSKL AAKWPTKLVK NCFLPLREYF
KYFSTELTSS L

General References

Ooi S.K., Qiu C, et al. (2007) Nature 448:714-717

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.