

Recombinant human DNMT3L protein

Catalog Number: ATGP2634

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-387aa

UniProt No.

Q9UJW3

NCBI Accession No.

NP_037501

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

46.3 kDa (412aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

Purity

> 80% 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

DNA (cytosine-5) -methyltransferase 3-like isoform, also known as DNMT3L, is a 387 amino acid protein that contains one ADD-type zinc finger and is a member of the DNMT family. Localized to the nucleus and expressed at low levels in thymus, testis and ovary, DNMT3L does not exhibit DNA methyltransferase activity, but is able to stimulate de novo methylation by DNMT3 and is thought to play a key role in the establishment of genomic imprints. Recombinant human DNMT3L protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

Amino acid Sequence

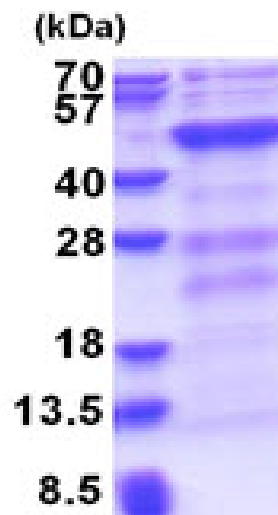
MGSSHHHHHHH SGLVPRGSH MGSEFMAAIP ALDPEAEPSM DVILVGSSSEL SSSVSPGTGR DLIAYEVKAN QRNIEDICIC
CGSLQVHTQH PLFEGGICAP CKDKFLDALF LYDDDGYSY CSICCSGETL LICGNPDCTR CYCFECVDSL VGPGTSGKVH
AMSNWVCYLC LPSSRSGLLQ RRRKWRSQLK AFYDRESENP LEMFETVPVW RRQPVRVLSL FEDIKKELTS LGFLESGSDP
GQLKHVVDTV DTVRKDVVEEW GPFDLVYGAT PPLGHTCDRP PSWYLFQFHR LLQYARPKPG SPRPFFWMFV DNLVLNKEDL
DVASRFLEME PVTIPDVHGG SLQNAVRVWS NIPAIRSSRH WALVSEEELS LLAQNKQSSK LAAKWPTKLV KNCFLPLREY
FKYFSTELTS SL

General References

Yoder J A., et al. (1997) J Mol Biol. 270: 385-395.
Suetake I., et al. (2006) J Biochem 1405: 553-559.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)