32-2279: DNMT3L Recombinant Protein

Alternative Name : DNMT3L,DNA (Cytosine-5-)-Methyltransferase 3-Like,Human Cytosine-5-Methyltransferase 3-Like Protein 11,Cytosine-5-Methyltransferase 3-Like Protein,DNA (Cytosine-5)-Methyltransferase 3-Like.

Description

Source : Escherichia Coli. DNMT3L Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 411 amino acids (1-386) and having a molecular mass of 46.2kDa.DNMT3L is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. DNA Cytosine-5--Methyltransferase 3-Like (DNMT3L) is a nuclear protein with similarity to DNA methyltransferases, but is not believed to act as a DNA methyltransferase since it doesn't contain the amino acid residues needed for methyltransferase activity. Nevertheless, DNMT3L stimulates de novo methylation by DNA cytosine methyltransferase 3 alpha and is assumed to be required for the formation of maternal genomic imprints. DNMT3L also mediates transcriptional repression as a result of interaction with histone deacetylase 1. DNMT3L is a catalytically inactive regulatory factor of DNA methyltransferases, which is vital for the function of DNMT3A and DNMT3B. DNMT3L activates DNMT3A and DNMT3B by binding to their catalytic domain. Furthermore, DNMT3L accelerates the binding of DNA and AdoMet to the methyltransferases and dissociates from the complex after DNA binding to the methyltransferases.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The DNMT3L solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSEFMAAIP ALDPEAEPSM DVILVGSSEL SSSVSPGTGR DLIAYEVKAN QRNIEDICIC CGSLQVHTQH PLFEGGICAP CKDKFLDALF LYDDDGYQSY CSICCSGETL LICGNPDCTR CYCFECVDSL VGPGTSGKVH AMSNWVCYLC LPSSRSGLLQ RRRKWRSQLK AFYDRESENP LEMFETVPVW RRQPVRVLSL FEDIKKELTS LGFLESGSDP GQLKHVVDVT DTVRKDVEEW GPFDLVYGAT PPLGHTCDRP PSWYLFQFHR LLQYARPKPG SPRPFFWMFV DNLVLNKEDL DVASRFLEME PVTIPDVHGG SLQNAVRVWS NIPAIRSRHW ALVSEEELSL LAQNKQSSKL AAKWPTKLVK NCFLPLREYF KYFSTELTSS L.