

DNMT3B recombinant protein

Recombinant DNMT3B protein

CATALOG #
AAA59665

HOST
Baculovirus

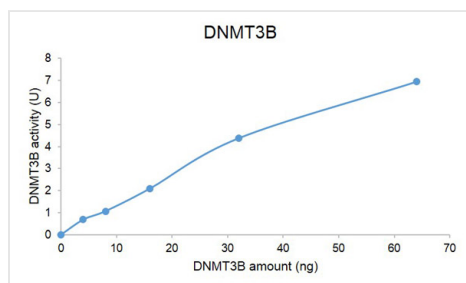
PRODUCT SYNONYMS

DNMT3B; Recombinant DNMT3B protein; ICF; ICF1; M.HsaIIIB; DNMT3B recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	The recombinant protein is >60% pure by SDS-PAGE.
Form/Format	Full length recombinant DNMT3B protein is supplied in 25mM Tris pH8.0, 300mM NaCl, 5% Glycerol and 0.04% Triton X-100, 1mM DTT. Please refer to product insert upon arrival for lot-specific concentration.
Protein Species	Human
Tag	His-Tag
Notes	Recombinant DNMT3B protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling. DNMT Activity Assay Conditions: Assay was performed using DNMT Activity/Inhibition Assay, for 1 hour at 37 degree C.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

Recombinant DNMT3B protein activity assay Recombinant DNMT3B protein activity was measured using DNMT Activity / Inhibition Assay, for 1 hour at 37 degree C



SDS-PAGE

Recombinant DNMT3B protein gel. Recombinant DNMT3B protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for DNMT3B recombinant protein	Short Description: Full-length recombinant DNMT3B protein (accession number NP_787045.1) was expressed in Sf9 cells and contains an N-terminal 6xHis-tag with a molecular weight of 89.7 kDa. The recombinant protein is >60% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: DNMT3B (DNA (Cytosine-5-)-Methyltransferase 3 Beta) proteins are involved in DNA methylation in which a methyl group is added to a cytosine residue on DNA, commonly at the C5 position of a CpG dinucleotide. Three families of DNMTs have been identified: DNMT1, DNMT2, and DNMT3. The DNMT3 family contains two active methyltransferases, DNMT3A & DNMT3B, and one DNMT3-Like protein (DNMT3L). DNMT3B has been shown to be important in the regulation of specific patterns of DNA methylation, specifically de novo methylation. Methylation of mammalian DNA has long been recognized to play a major role in a number of cellular functions such as embryonic development, genetic imprinting, X chromosome inactivation and the control of gene expression. DNA methylation is generally associated with transcriptional repression. Mutations in the DNMT3B gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome.
Product Categories/Family for DNMT3B recombinant protein	Recombinant Proteins; DNA Methyltransferase (DNMT)

NCBI AND UNIPROT INFORMATION

NCBI GI #	28559063
NCBI GeneID	1789
NCBI Accession #	NP_787045.1
NCBI GenBank Nucleotide #	NM_175849.1
UniProt Accession #	Q9UBC3; Q9UBD4; Q9UJQ5; Q9UKA6; Q9UNE5; A2A2E2; B4DSM8; B4DSU1; E1P5M6; E1P5M7; E7EN63; E9PBF2
Molecular Weight	81,311 Da
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3B isoform 3
NCBI Official Synonym Full Names	DNA methyltransferase 3 beta
NCBI Official Symbol	DNMT3B
NCBI Official Synonym Symbols	ICF; ICF1; M.HsaIIIB
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3B
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3B
UniProt Gene Name	DNMT3B
UniProt Synonym Gene Names	Dnmt3b; DNA MTase HsaIIIB; M.HsaIIIB
UniProt Entry Name	DNM3B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.