

Active Recombinant Full Length Human DNMT1 Protein, His&Flag tagged

Cat. No. DNMT1-388H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length recombinant DNMT1 protein (accession number NP_001370.1) was expressed in Sf9 cells and contains an N-terminal 6×His Tag and FLAG-Tag.
Species	Human
Source	Insect Cells
ProteinLength	1-1616 aa
Description	This gene encodes an enzyme that transfers methyl groups to cytosine nucleotides of genomic DNA. This protein is the major enzyme responsible for maintaining methylation patterns following DNA replication and shows a preference for hemi-methylated DNA. Methylation of DNA is an important component of mammalian epigenetic gene regulation. Aberrant methylation patterns are found in human tumors and associated with developmental abnormalities. Variation in this gene has been associated with cerebellar ataxia, deafness, and narcolepsy, and neuropathy, hereditary sensory, type IE. Alternative splicing results in multiple transcript variants.
Form	25 mM HEPES-NaOH pH 7.5, 500 mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5 mM TCEP.
Molecular Mass	188.2 kDa
Purity	> 90% by SDS-PAGE

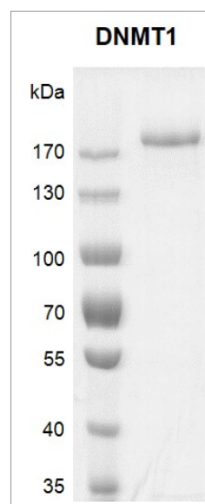
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Applications	Recombinant DNMT1 protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling. DNMT Activity Assay Conditions: Assay was performed using DNMT Activity/Inhibition Assay for 1 hour at 37 centigrade.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
GENE INFORMATION	
Gene Name	DNMT1 DNA methyltransferase 1 [Homo sapiens (human)]
Official Symbol	DNMT1
Synonyms	DNMT1; DNA methyltransferase 1; AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN; m.Hsal; DNA (cytosine-5)-methyltransferase 1; CXXC-type zinc finger protein 9; DNA (cytosine-5-)-methyltransferase 1; DNA MTase Hsal; DNA methyltransferase Hsal; EC 2.1.1.37
Gene ID	1786
mRNA Refseq	NM_001379
Protein Refseq	NP_001370
MIM	126375
UniProt ID	P26358
Activity	

SDS-PAGE



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