

Datasheet for ABIN2669604

DNMT1 Protein (AA 2-1632) (GST tag)[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	DNMT1
Protein Characteristics:	AA 2-1632
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DNMT1 protein is labelled with GST tag.
Application:	Enzyme Activity Assay (EAA)

Product Details

Characteristics:	Recombinant human DNMT1 was expressed in Sf9 cells via a baculovirus expression system as amino acids 2-1632 (accession number NM_001130823) with an N-terminal GST tag. The molecular weight of the protein is 211 kDa.
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Target Details

Target:	DNMT1
Alternative Name:	DNMT1 (DNMT1 Products)
Background:	DNMT1 - DNA methyltransferase 1 (or DNMT 1) 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

Target Details

(comprised of DNMT3A and DNMT3B). DNMT1 is the most abundant DNMT in somatic cells and shows a preference for methylating hemi-methylated DNA. It is considered to be a maintenance DNA methyltransferase that is important in the maintenance of specific patterns of methylation throughout cellular divisions. 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.

Molecular Weight: The molecular weight of the protein is 211 kDa.

Pathways: [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

Application Details

Application Notes: Recombinant DNMT1 is suitable for use in DNA methylation assays. This protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Restrictions: For Research Use only

Handling

Handling Advice: Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Storage: -80 °C

Storage Comment: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.