

Recombinant Human DNMT1 protein, His-FLAG-tagged

Cat. No. DNMT1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human DNMT1 (DNA methyltransferase 1), encompassing amino acids 501-1632 (end). This construct contains an N-terminal His-tag (6xHis) followed by a FLAG tag. The protein was affinity purified. Scientific Category: Methyltransferase.
Species	Human
Source	Sf9 Cells
ProteinLength	501-1632 a.a.
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	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 80 ng/μFLAG peptide, and 20% glycerol.
Molecular Mass	130 kDa
Purity	≥90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Notes	Avoid freeze/thaw cycles.
Storage	At least 6 months at –80 centigrade.
Shipping	-80 centigrade

GENE INFORMATION

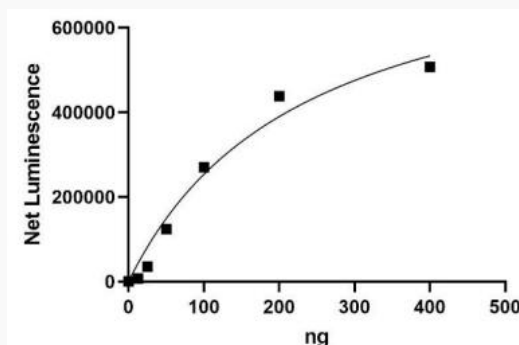
Gene Name	DNMT1 DNA methyltransferase 1 [Homo sapiens (human)]
Official Symbol	DNMT1
Synonyms	TRDMT1; DNA; DNA (cytosine-5)-methyltransferase 1; DNMT1; ADCADN; AIM; CXXC9; DNMT; HSN1E; MCMT; m.HsaI; DNA (cytosine-5-)-methyltransferase 1
Gene ID	1786
mRNA Refseq	NM_001130823
Protein Refseq	NP_001124295
MIM	126375
UniProt ID	P26358

 Tel: 1-631-559-9269 1-516-512-3133

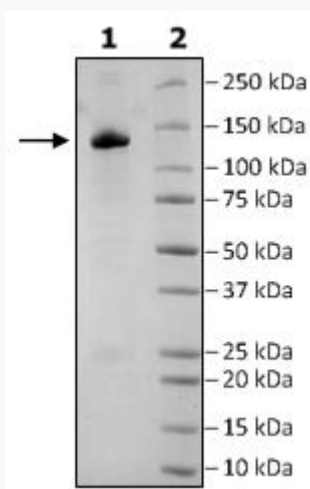
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DNMT1 Activity



4-20%SDS-Page Coomassie Staining



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA