

Datasheet for 010-001-R85S**DNMT1 protein-GST fusion****Overview**

Description:	DNMT1 recombinant protein-GST fusion protein - 010-001-R85S
Item No.:	010-001-R85S
Size:	20 µg
Origin:	Mouse
Expressed in:	Sf9 cells

Product Details

Background:	DNMT1 has a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues. Aberrant methylation patterns are associated with certain human tumors and developmental abnormalities (1). DNMT1 enzyme is crucial for stable expression and function in vivo (2). DNMT1 is essential for maintenance of DNA methylation and the interaction of DNMT1 with the replication machinery is not strictly necessary for maintenance of DNA methylation, but improves its efficiency. DNMT1 is necessary and sufficient to maintain global methylation and aberrant CpG island methylation in human cancer cells. DNMT1 Protein is ideal for investigators involved in Signaling Proteins, Acetyl/Methyltransferase Proteins, Apoptosis/Autophagy, Cancer, Cell Cycle, and Neurobiology research.
Synonyms:	Dnmt, MCMT, Cxxc9, MTase, Met-1, Dnmt1o, m.Mmul, Met1, MommeD2, Cytosine-specific methyltransferase, DNA (cytosine-5)-methyltransferase 1, CXXC-type zinc finger protein 9, DNA methyltransferase Hsa1
Species of Origin:	Mouse
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	DNMT1
Purity/Specificity:	Recombinant mouse DNMT1 (766-end) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry.
Relevant Links:	• NCBI - BC053047

Application Details

Application Note:	DNMT1 Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. DNMT1 Protein is suitable for use in Western Blot. Expect a band approximately ~ 94kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.05 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

