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Datasheet for 009-001-T30S

SETMAR protein-GST fusion

Overview

Description:	SETMAR recombinant protein-GST fusion protein - 009-001-T30S
Item No.:	009-001-T30S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	SETMAR or SET domain and mariner transposase fusion gene is a nonhomologous end-joining repair protein that regulates genomic integration of exogenous DNA by opening chromatin and facilitating joining of DNA ends (1). SETMAR has histone methyltransferase activity and methylates 'Lys-4' and 'Lys-36' of histone H3. SETMAR also has DNA nicking activity and may play a role in DNA repair (2). Human Pso4 forms a stable complex with SETMAR that regulates Metnase function in DNA repair. SETMAR has sequence-specific DNA-binding activity and recognizes the 19-mer core of the 5'-terminal inverted repeats (TIRs) of the Hsmar1 element. SETMAR Protein is ideal for investigators involved in Signaling Proteins, Acetyl/Methyltransferase Proteins, Apoptosis/Autophagy, Cancer, Cell Cycle, and Neurobiology research.
Synonyms:	METNASE, Histone-lysine N-methyltransferase SETMAR, HsMar1, Histone-lysine N-methyltransferase, Mariner transposase Hsmar1
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	SETMAR
Purity/Specificity:	Recombinant full-length human SETMAR was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry.
Relevant Links:	• NCBI - BC011635

Application Details

Application Note:	SETMAR Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. SETMAR Protein is suitable for use in Western Blot. Expect a band approximately ~66-69kDa 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:	0.2 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.

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