Recombinant Human SUV39H1, GST-tagged

Cat. No. SUV39H1-6968H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SUV39H1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	SUV39H1 is a histone H3-specific methyltransferases that selectively methylates lysine-9 of the N terminus of histone H3 in vitro. SUV39H1 is also a member of the suppressor of variegation 3-9 homolog family and encodes a protein with a chromodomain and a C-terminal SET domain. SUV39H1 moves to the centromeres during mitosis where it functions as a histone methyltransferase, methylating Lys-9 of histone H3. SUV39H1 activity is regulated by acetylation at lysine residue 266 in its catalytic SET domain by SIRT1. SIRT1 interacts directly with, recruits, and deacetylates SUV39H1, and these activities independently contribute to elevated levels of SUV39H1 activity resulting in increased levels of the H3K9me3 modification.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~73 kDa
Purity	>70%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 μg/μ

GENE INFORMATION

Gene Name	SUV39H1 suppressor of variegation 3-9 homolog 1 (Drosophila) [Homo sapiens]
Official Symbol	SUV39H1
Synonyms	SUV39H1; suppressor of variegation 3-9 homolog 1 (Drosophila); suppressor of variegation 3 9 (Drosophila) homolog 1 , SUV39H; histone-lysine N-methyltransferase SUV39H1; KMT1A; H3-K9-HMTase 1; Su(var)3-9 homolog 1; lysine N-methyltransferase 1A; histone H3-K9 methyltransferase 1; position-effect variegation 3-9 homolog; histone-lysine N-methyltransferase, H3 lysine-9 specific 1; MG44; SUV39H;
Gene ID	6839
mRNA Refseq	NM_003173
Protein Refseq	NP_003164
MIM	300254
UniProt ID	O43463
Chromosome	Xp11.23

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Location	
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Regulation of retinoblastoma protein, organism-specific biosystem;
Function	S-adenosylmethionine-dependent methyltransferase activity; chromatin binding; histone methyltransferase activity; histone methyltransferase activity (H3-K9 specific); histone-lysine N-methyltransferase activity; protein N-terminus binding; protein binding; transferase activity; zinc ion binding;

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