Recombinant Human SUV39H1, GST-tagged

Cat. No. SUV39H1-471H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SUV39H1 (amino acids 82-412) was expressed in an*E.coli*expression system with N-terminal GST tag. MW=64 kDa.
Species	Human
Source	E.coli
ProteinLength	82-412 a.a.
Description	Histone-lysine N-methyltransferase SUV39H1 is an enzyme that in humans is encoded by the SUV39H1 gene.This gene is a member of the suppressor of variegation 3-9 homolog family and encodes a protein with a chromodomain and a C-terminal SET domain. This nuclear protein moves to the centromeres during mitosis and functions as a histone methyltransferase, methylating Lys-9 of histone H3. Overall, it plays a vital role in heterochromatin organization, chromosome segregation, and mitotic progression.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 30% glycerol, and 3 mM DTT.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Purity	> 50%.
Stability	>6 months at -80°C.

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

GENE INFORMATION

Gene Name	SUV39H1 suppressor of variegation 3-9 homolog 1 (Drosophila) [Homo sapiens]
Synonyms	suppressor of variegation 3-9 homolog 1 (Drosophila); MG44; KMT1A; SUV39H; SUV39H1; suppressor of variegation 3-9 homolog 1; H3-K9-HMTase 1; Su(var)3-9 homolog 1; histone H3-K9 methyltransferase 1; histone-lysine N-methyltransferase, H3 lysine-9 specific 1; EC 2.1.1.43; OTTHUMP00000024298Histone; H3-K9 methyltransferase 1; Lysine N-methyltransferase 1A; Position-effect variegation 3-9 homolog; Suppressor of variegation 3-9 homolog 1; suppressor of variegation 3-9 (Drosophila) homolog 1
Gene ID	6839
mRNA Refseq	NM_003173
Protein Refseq	NP_003164
MIM	300254
UniProt ID	O43463
Chromosome Location	Xp11.23
Pathway	Lysine degradation
Function	S-adenosylmethionine-dependent methyltransferase activity; chromatin binding; histone methyltransferase activity (H3-K9 specific); protein N-terminus binding; transferase activity; zinc ion binding

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