

Active Recombinant Human WHSC1 protein, GST-tagged

Cat. No. WHSC1-201H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WHSC1(911-end) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	911-end a.a.
Description	Histone-lysine N-methyltransferase NSD2 or Multiple myeloma SET domain-containing protein (MMSET) is a histone methyltransferase (HMT) with histone H3 'Lys-27' (H3K27me) methyltransferase activity. Overexpressed in t(4;14)+ multiple myeloma (MM) patients, leading to an increase in histone 3 lysine 36 dimethylation (H3K36me2), and a decrease in histone 3 lysine 27 trimethylation (H3K27me3), accompanied by changes in proliferation, gene expression and chromatin accessibility.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	350 nmol/min/mg
Molecular Mass	80 kDa
Purity	>70%

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Applications	Methyltransferase Assay
Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at -70 centigrade. 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.
Concentration	0.1 µg/µl

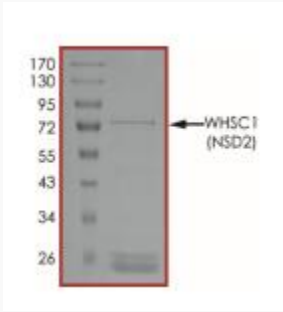
GENE INFORMATION

Gene Name	WHSC1 Wolf-Hirschhorn syndrome candidate 1 [Homo sapiens]
Official Symbol	WHSC1
Synonyms	WHSC1; Wolf-Hirschhorn syndrome candidate 1; probable histone-lysine N-methyltransferase NSD2; MMSET; NSD2; trithorax/ash1-related protein 5; nuclear SET domain-containing protein 2; IL5 promoter RE11 region-binding protein; multiple myeloma SET domain co
Gene ID	7468
mRNA Refseq	NM_133330
Protein Refseq	NP_579877
MIM	602952
UniProt ID	O96028

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Chromosome Location	4p16.3
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	DNA binding; histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; transferase activity; zinc ion binding;
	

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