

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	0.1µg/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 REII 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;

