Recombinant Human Wolf-Hirschhorn Syndrome Candidate 1, GST-tagged

Cat. No. WHSC1-429H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NSD2 (MMSET) (amino-acids 941-1240), with N-terminal GST tag expressed in*E.Coli*expression system. MW = 62kDa.
Species	Human
Source	E.coli
ProteinLength	941-1240 a.a.
Description	Probable histone-lysine N-methyltransferase NSD2 is an enzyme that in humans is encoded by the WHSC1 gene. This gene encodes a protein that contains four domains present in other developmental proteins: a PWWP domain, an HMG box, a SET domain, and a PHD-type zinc finger. It is expressed ubiquitously in early development. Wolf-Hirschhorn syndrome (WHS) is a malformation syndrome associated with a hemizygous deletion of the distal short arm of chromosome 4. This gene maps to the 165 kb WHS critical region and has also been involved in the chromosomal translocation t(4;14)(p16.3;q32.3) in multiple myelomas. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. Some transcript variants are nonsense-mediated mRNA (NMD) decay candidates, hence not represented as reference sequences.
Purity	>65%.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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

Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 30% glycerol, and 3 mM DTT.
Stability	>6 months at –80°C.

GENE INFORMATION

Gene Name	EHMT2 euchromatic histone-lysine N-methyltransferase 2 [Homo sapiens]
Synonyms	WHSC1; Wolf-Hirschhorn syndrome candidate 1; IL5 promoter REII region-binding protein; OTTHUMP00000196943; Wolf-Hirschhorn syndrome candidate 1 protein; multiple myeloma SET domain containing protein type III; trithorax/ash1-related protein 5; WHS; NSD2; TRX5; MMSET; REIIBP; FLJ23286; KIAA1090; MGC176638; EC 2.1.1.43
Gene ID	7468
mRNA Refseq	NM_001042424
Protein Refseq	NP_001035889
MIM	602952
UniProt ID	O96028
Chromosome Location	4p16.3
Pathway	Lysine degradation
Function	DNA binding; histone-lysine N-methyltransferase activity; methyltransferase activity;

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	protein binding; transferase activity; zinc ion binding

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