

NSD2 recombinant protein

Recombinant NSD2 (MMSET) protein

CATALOG # AAA59692	HOST Baculovirus
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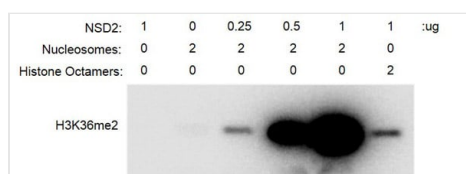
PRODUCT SYNONYMS

NSD2; Recombinant NSD2 (MMSET) protein; WHS; TRX5; REIIBP; NSD2 recombinant protein

PRODUCT SPECIFICATIONS

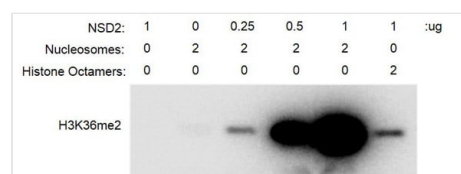
Host	Baculovirus
Purity/Purification	The recombinant protein is >= 75% pure by SDS-PAGE.
Form/Format	Recombinant NSD2 (MMSET) protein is supplied at a concentration of 0.3ug/ul in 25mM HEPES-NaOH pH7.5, 500mM NaCl, 5% glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant NSD2 (MMSET) is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 2ug recombinant nucleosomes were incubated with different concentrations of NSD2 (MMSET) protein in 30ul reaction system including 50mM Tris-HCl pH 8.6, 0.02% Triton X-100, 2mM MgCl2, 1mM TCEP, 50uM SAM for 3 hours at room temperature. Activity was detected by Western Blot.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



SDS-PAGE

NSD2 (MMSET) activity assay. 2 ug recombinant nucleosomes were incubated with NSD2 in 30 ul reaction system for 3 hr. at room temp. Reaction products were run on a 12.5% SDS-PAGE gel and detected with H3K36me2 antibody. NSD2 only was used as negative control. Results show that nucleosomes are better than octamers as substrates for NSD2.



SDS-PAGE

Recombinant NSD2 (MMSET) protein gel. NSD2 (MMSET) protein was run on a 8% SDS-PAGE gel and stained with Coomassie blue. MW: 154 kDa Purity: > 75%

ADDITIONAL INFORMATION

Related Product Information for NSD2 recombinant protein	Short Description: Recombinant MMSET/WHSC1 (accession number NP_579877.1) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with an observed molecular weight of 154 kDa. MMSET (Multiple Myeloma SET domain-containing protein)/WHSC1 (Wolf-Hirschhorn Syndrome Candidate 1; also known as NSD2, Nuclear Receptor binding SET domain protein 2; TRX5, Trithorax 5) is a SET domain-containing histone methyltransferase specific for lysine 36 of histone H3. The MMSET/WHSC1 gene is deleted in Wolf-Hirschhorn syndrome, a disorder characterized by developmental defects and mental retardation. In 15% of patients with Multiple Myeloma (MM), a chromosomal translocation leads to MMSET/WHSC1 gene being aberrantly placed under the control of the IgH intronic enhancer and expressed at very high levels. This event is apparently a key component in cellular transformation leading to MM. Reduction in MMSET/WHSC1 expression in a myeloma cell line suppressed its growth, suggesting a role for MMSET in maintaining the transformed state. Recombinant MMSET/WHSC1 protein can be used for enzyme kinetics and inhibitor screening studies. Background: NSD2 (MMSET)(Multiple Myeloma SET domain-containing protein)/WHSC1 (Wolf-Hirschhorn Syndrome Candidate 1; also known as NSD2, Nuclear Receptor binding SET domain protein 2; TRX5, Trithorax 5) is a SET domain-containing histone methyltransferase specific for lysine 36 of histone H3. The NSD2 (MMSET) gene is deleted in Wolf-Hirschhorn syndrome, a disorder characterized by developmental defects and mental retardation. In 15% of patients with Multiple Myeloma (MM), a chromosomal translocation leads to NSD2 (MMSET) gene being aberrantly placed under the control of the IgH intronic u enhancer and expressed at very high levels. This event is apparently a key component in cellular transformation leading to MM. Reduction in NSD2 (MMSET) expression in a myeloma cell line suppressed its growth, suggesting a role for NSD2 (MMSET) in maintaining the transformed state.
Product Categories/Family for NSD2 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of 154kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/nsd2-recombinant-protein-baculovirus/59692>