

NSD2 recombinant protein

Recombinant NSD2 (MMSET)-SET protein

CATALOG #
AAA59706

HOST
E Coli

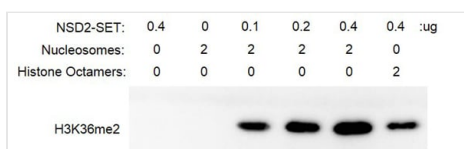
PRODUCT SYNONYMS

NSD2; Recombinant NSD2 (MMSET)-SET protein; Nuclear Receptor Binding SET Domain Protein 2; WHS; TRX5; REIIBP; NSD2 recombinant protein

PRODUCT SPECIFICATIONS

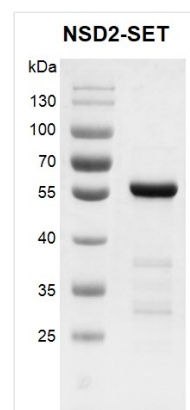
Host	E Coli
Purity/Purification	The recombinant protein is >90% pure by SDS-PAGE.
Form/Format	Recombinant NSD2 (MMSET)-SET (aa 942-1240) is supplied in 25mM Tris pH8.0, 300mM NaCl, 10% glycerol, and 0.5mM TCEP.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant NSD2 (MMSET)-SET protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.
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



WB (Western Blot)

Recombinant NSD2 (MMSET)-SET activity assay 2 ug recombinant nucleosomes were incubated with NSD2 (MMSET)-SET protein in reaction buffer for 3 hours at room temperature. Western blot was used to detect the generation of reaction products using Histone H3K36me2 antibody. NSD2-SET only was used as negative control.



SDS-PAGE

Recombinant NSD2 (MMSET)-SET protein gel. Recombinant NSD2 (MMSET)-SET run on a 12.5% SDS-PAGE gel and stained with Coomassie Blue. MW: 60 kDa Purity: > 90%

ADDITIONAL INFORMATION

Related Product Information for NSD2 recombinant protein	Short Description: Recombinant NSD2 (MMSET)-SET peptide that includes amino acids 942-1240 that contains the SET domain sequence of the human NSD2 (MMSET)-SET protein (accession number NP_579877.1) was expressed in E Coli and contains an N-terminal GST-Tag with an observed molecular weight of 60 kDa. The recombinant protein is >90% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: NSD2 (MMSET)-SET (Multiple Myeloma SET domain-containing protein, WHSC1/Wolf-Hirschhorn Syndrome Candidate 1, 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)-SET 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)-SET 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)-SET expression in a myeloma cell line suppressed its growth, suggesting a role for NSD2 (MMSET)-SET in maintaining the transformed state. NSD2 (MMSET)-SET includes the SET domain of NSD2 (MMSET)-SET. The SET domain is a 130 to 140 amino acid, evolutionary conserved motif that was initially characterized in the Drosophila proteins Su(var)3-9, EZH2 and TrxG and plays a crucial role in substrate recognition and enzymatic activity.
Product Categories/Family for NSD2 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of 60kDa
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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-e-coli/59706>