

NSD2-SET recombinant protein

Recombinant NSD2-SET (E1099K) protein

CATALOG #
AAA59758

HOST
E Coli

PRODUCT SYNONYMS

NSD2-SET; Recombinant NSD2-SET (E1099K) protein; nuclear receptor binding SET domain protein 1; WHSC1; MMSET; TRX5; NSD2-SET recombinant protein

PRODUCT SPECIFICATIONS

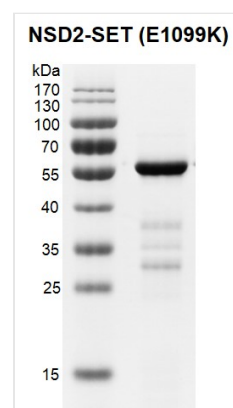
Host	E Coli
Purity/Purification	The purity of NSD2-SET (E1099K) protein is >85% pure by SDS-PAGE.
Form/Format	Recombinant NSD2-SET (E1099K) protein is supplied in 50mM Tris pH8.0, 300mM NaCl, 5% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant NSD2-SET (E1099K) is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Protein Function: H3K36me2 methyltransferase activity. HMT Assay Conditions: 60 ng/ul recombinant nucleosomes was incubated with 30 ng/ul NSD2-SET (E1099K) protein in reaction buffer including 50mM TrisCl, 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



WB (Western Blot)

Recombinant NSD2-SET (E1099K) activity assay. 2 ug recombinant nucleosomes were incubated with NSD2-SET (E1099K) in reaction buffer for 3 hours at room temperature. 2 ug histone octamer was used as a control substrate. Reaction product (H3K36me2) was detected by Western Blot.



SDS-PAGE

Recombinant NSD2-SET (E1099K) protein gel. NSD2-SET (E1099K) protein was run on a 12% SDS- PAGE gel and stained with Coomassie Blue. The purity of NSD2-SET (E1099K): ? 85%

ADDITIONAL INFORMATION

Related Product Information for NSD2-SET recombinant protein	Short Description: Recombinant human NSD2-SET (E1099K) includes amino acids 942-1240 (accession number NP_579877.1) was expressed in E Coli with a point mutation (Glu1099Lys) and an N-terminal GST-Tag. The molecular weight of the protein is 60 kDa. NSD2-SET (E1099K) protein is >85% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: NSD2 (nuclear receptor binding SET domain protein 1; also known as WHSC1; MMSET; TRX5) is a SET domain-containing histone methyltransferase specific for lysine 36 of histone H3. The NSD2 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 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 expression in a myeloma cell line suppressed its growth, suggesting a role for NSD2 in maintaining the transformed state. NSD2 p.Glu1099Lys (p.E1099K) variant was identified in nontranslocated acute lymphoblastic leukemia (ALL) cell lines.
Product Categories/Family for NSD2-SET recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of the protein is 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-set-recombinant-protein-e-coli/59758>