

NSD2 recombinant protein

Recombinant NSD2 (E1099K) protein

CATALOG #
AAA59745

HOST
Baculovirus

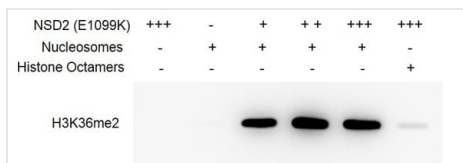
PRODUCT SYNONYMS

NSD2; Recombinant NSD2 (E1099K) protein; MMSET; WHSC1; Wolf-Hirschhorn Syndrome Candidate 1; Nuclear SET Domain-Containing Protein 2; TRX5; Multiple Myeloma SET Domain Containing Protein; Histone-Lysine N-Methyltransferase NSD2; NSD2 recombinant protein

PRODUCT SPECIFICATIONS

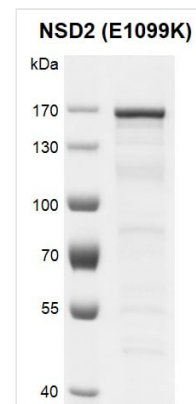
Host	Baculovirus
Purity/Purification	The purity of NSD2 (E1099K) protein is >75% by SDS-PAGE.
Form/Format	Full length recombinant NSD2 (E1099K) protein is supplied in 25mM HEPES pH7.5, 500mM NaCl, 5% glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Concentration	0.35?g/?l (varies by lot)
Source	Human
Notes	ecombinant human NSD2 (E1099K) was expressed in a baculovirus expression system as the full length protein (accession number NP_579877.1) with a point mutation (Glu1099Lys) and an N-terminal DYKDDDDK-Tag.
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 (E1099K) activity assay. 2 ug recombinant nucleosomes was incubated with 0 ug (-), 0.25 ug (+), 0.5 ug (++), 1 ug NSD2 (E1099K)(+++), respectively, in reaction buffer for 3 hours at room temperature. 2 ug histone octamer was used as a control substrate for NSD2 (E1099K) assay. Production (H3K36me2) was detected by Western blot.



SDS-PAGE

Recombinant NSD2 (E1099K) protein gel. NSD2 (E1099K) protein was run on an 8% SDS-PAGE gel and stained with Coomassie Blue. The purity of NSD2 (E1099K): &#8805; 75%

ADDITIONAL INFORMATION

Related Product Information for NSD2 recombinant protein	Short Description: Recombinant human NSD2 (E1099K) was expressed in a baculovirus expression system as the full-length protein (accession number NP_579877.1) with a point mutation (Glu1099Lys) and an N-terminal DYKDDDDK-Tag. The molecular weight of the protein is 154 kDa. The purity of NSD2 (E1099K) protein is >75% 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 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of the protein is 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/59745>