

Active Recombinant Human NSD1 protein, GST-tagged

Cat. No. NSD1-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NSD1 protein, fused to GST-tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1852-2082aa
Description	This gene encodes a protein containing a SET domain, 2 LXXLL motifs, 3 nuclear translocation signals (NLSs), 4 plant homeodomain (PHD) finger regions, and a proline-rich region. The encoded protein enhances androgen receptor (AR) transactivation, and this enhancement can be increased further in the presence of other androgen receptor associated coregulators. This protein may act as a nucleus-localized, basic transcriptional factor and also as a bifunctional transcriptional regulator. Mutations of this gene have been associated with Sotos syndrome and Weaver syndrome. One version of childhood acute myeloid leukemia is the result of a cryptic translocation with the breakpoints occurring within nuclear receptor-binding Su-var, enhancer of zeste, and trithorax domain protein 1 on chromosome 5 and nucleoporin, 98-kd on chromosome 11. Multiple transcript variants encoding distinct isoforms have been identified for this gene.
Form	25 mM Tris, pH 7.4, 150 mM NaCl and 5% glycerol.
Bio-activity	H3K36 and H4K20 methyltransferase

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Molecular Mass	51 kDa
Purity	>95%
Applications	Recombinant NSD1-SET protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Expiry	6 months
Concentration	1.0 mg/ml

GENE INFORMATION

Gene Name	NSD1 nuclear receptor binding SET domain protein 1 [Homo sapiens (human)]
Official Symbol	NSD1
Synonyms	STO; KMT3B; SOTOS; ARA267; SOTOS1
Gene ID	64324
mRNA Refseq	NM_022455
Protein Refseq	NP_071900
MIM	606681

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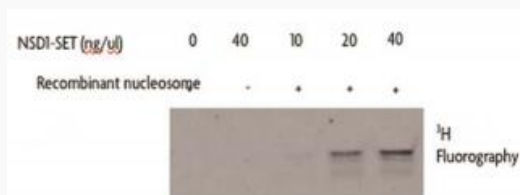
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UniProt ID

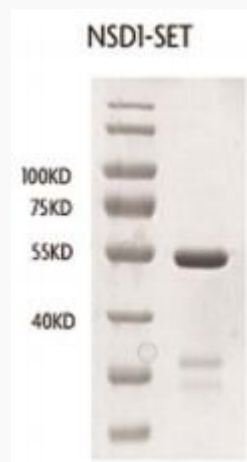
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NSD1-SET activity assay using Recombinant Nucleoson as substrates.



Recombinant Nucleosomes were used as substrates in an assay measuring the methyltransferase activity of NSD1-SET. Activity was detected by fluorography.

Recombinant NSD1-SET protein gel.



Recombinant NSD1-SET run on an SDS-PAGE gel and stained with Coomassie blue.

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