

Recombinant Human NSD1 Protein, GST-tagged

Cat. No. NSD1-035H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant N-terminal GST-tagged human NSD1 protein (1700-1986) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1700-1986
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.
Molecular Mass	60.2 kDa
Purity	≥60% as determined by SDS-PAGE

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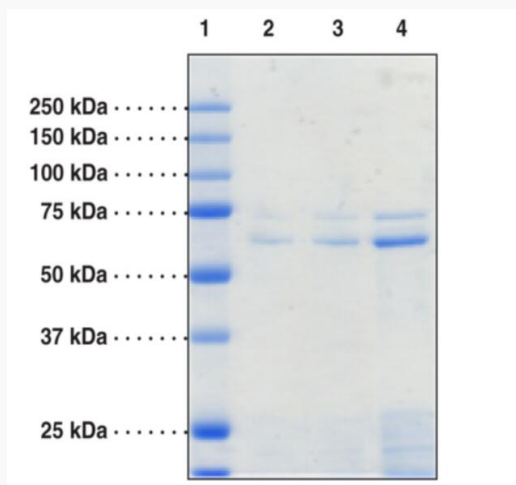
Stability	≥ 1 year
Storage	At -80 centigrade.
GENE INFORMATION	
Gene Name	NSD1 nuclear receptor binding SET domain protein 1 [Homo sapiens (human)]
Official Symbol	NSD1
Synonyms	NSD1; nuclear receptor binding SET domain protein 1; STO; KMT3B; SOTOS; ARA267; SOTOS1; histone-lysine N-methyltransferase, H3 lysine-36 specific; H3-K36-HMTase; H4-K20-HMTase; NR-binding SET domain-containing protein; androgen receptor coactivator 267 kDa protein; androgen receptor-associated coregulator 267; androgen receptor-associated protein of 267 kDa; histone-lysine N-methyltransferase, H3 lysine-36 and H4 lysine-20 specific; lysine N-methyltransferase 3B; nuclear receptor SET domain-containing protein 1; nuclear receptor-binding SET domain-containing protein 1; truncated nuclear receptor binding SET domain protein 1; EC 2.1.1.357
Gene ID	64324
mRNA Refseq	NM_022455
Protein Refseq	NP_071900
MIM	606681
UniProt ID	Q96L73

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**SDS-PAGE analysis
of NSD1**



Lane 1: MW Markers

Lane 2: NSD1 (1 µg)

Lane 3: NSD1 (2 µg)

Lane 4: NSD1 (5 µg)