

## WHSC1 recombinant protein

WHSC1 (NSD2), Active

|                              |                                                   |                                                |
|------------------------------|---------------------------------------------------|------------------------------------------------|
| CATALOG #<br><b>AAA73038</b> | HOST<br><b>Sf9 insect cells using baculovirus</b> | APPLICATIONS<br><b>Methyltransferase Assay</b> |
|------------------------------|---------------------------------------------------|------------------------------------------------|

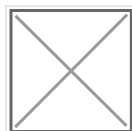
### PRODUCT SYNONYMS

WHSC1; WHSC1 (NSD2); Active; WHSC1 recombinant protein

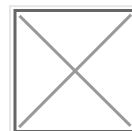
### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                      |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | Sf9 insect cells using baculovirus                                                                                                                                                                                                                   |
| Form/Format                                           | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                               |
| Sequence Positions                                    | 911-end                                                                                                                                                                                                                                              |
| Sequence Length                                       | 7886                                                                                                                                                                                                                                                 |
| Applicable Applications for WHSC1 recombinant protein | Methyltransferase Assay                                                                                                                                                                                                                              |
| Species                                               | Human                                                                                                                                                                                                                                                |
| Tag                                                   | GST 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                               | Store product at -70 degree C.<br>For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature.<br>For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



Application Data



Application Data

### ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Related Product Information for WHSC1 recombinant protein | <p>Description: Recombinant human WHSC1 (911-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.</p> <p>Scientific Background: Histone-lysine N-methyltransferase NSD2 or Multiple myeloma SET domain-containing protein (MMSET) is a histone methyltransferase (HMT) with histone H3 'Lys-27' (H3K27me) methyltransferase activity. Overexpressed in t (4;14)+ multiple myeloma (MM) patients, leading to an increase in histone 3 lysine 36 dimethylation (H3K36me2), and a decrease in histone 3 lysine 27 trimethylation (H3K27me3), accompanied by changes in proliferation, gene expression and chromatin accessibility.</p> |
| Product Categories/Family for WHSC1 recombinant protein   | <b>Enzymes; Active Methyltransferases</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                                | <p>1. Shah MY, et al: MMSET/WHSC1enhances DNA damage repair leading to an increase in resistance to chemotherapeutic agents. Oncogene. 2016 Apr 25. doi: 10.1038/onc.2016.116. 2. Morishita M, et al: Cancers and the NSD family of histone lysine methyltransferases. Biochim Biophys Acta. 2011 Dec;1816 (2):158-63.</p>                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 170014718                                                                                      |
| NCBI GeneID                      | 7468                                                                                           |
| NCBI Accession #                 | NM_133330.2                                                                                    |
| NCBI GenBank Nucleotide #        | NM_133330                                                                                      |
| UniProt Accession #              | O96028; O96031; Q4VBY8; Q672J1; Q6IS00; Q86V01; Q9BZB4; A2A2T2; A2A2T3; A2A2T4; A7MCZ1; D3DVQ2 |
| Molecular Weight                 | 80 kDa                                                                                         |
| NCBI Official Full Name          | Homo sapiens nuclear receptor binding SET domain protein 2 (NSD2), transcript variant 1, mRNA  |
| NCBI Official Synonym Full Names | nuclear receptor binding SET domain protein 2                                                  |
| NCBI Official Symbol             | NSD2                                                                                           |
| NCBI Official Synonym Symbols    | WHS; TRX5; KMT3F; KMT3G; MMSET; WHSC1; REIIBP                                                  |
| NCBI Protein Information         | histone-lysine N-methyltransferase NSD2                                                        |
| UniProt Protein Name             | Histone-lysine N-methyltransferase NSD2                                                        |
| UniProt Gene Name                | NSD2                                                                                           |
| UniProt Synonym Gene Names       | MMSET                                                                                          |

**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-sf9-insect-cells-using-baculovirus-methyltransferase-assay/73038>