

## Recombinant Human EHMT2, GST-tagged

**Cat. No.** EHMT2-427H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human G9a (euchromatic histone-lysine N-methyltransferase 2) (amino-acids 785-1210), with N-terminal GST tag expressed in <i>E. Coli</i> expression system. MW = 74.6 kDa.                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 785-1210 a.a.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Histone-lysine N-methyltransferase, H3 lysine-9 specific 3 is an enzyme that in humans is encoded by the EHMT2 gene. A cluster of genes, BAT1-BAT5, has been localized in the vicinity of the genes for TNF alpha and TNF beta. This gene is found near this cluster; it was mapped near the gene for C2 within a 120-kb region that included a HSP70 gene pair. |
| <b>Purity</b>           | >70%.                                                                                                                                                                                                                                                                                                                                                            |
| <b>Application</b>      | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.                                                                                                                                                                                                                                                                        |
| <b>Formulated In</b>    | 25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 30% glycerol, and 3 mM DTT.                                                                                                                                                                                                                                                                                 |
| <b>Stability</b>        | >6 months at –80°C.                                                                                                                                                                                                                                                                                                                                              |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

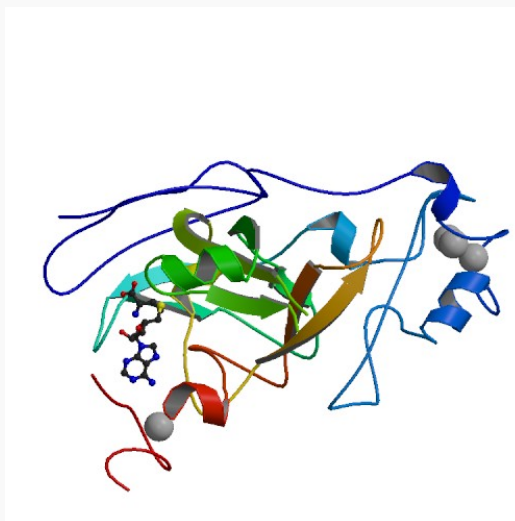
|                            |                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | EHMT2 euchromatic histone-lysine N-methyltransferase 2 [ Homo sapiens ]                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>            | EHMT2; euchromatic histone-lysine N-methyltransferase 2; G9A; BAT8; NG36; KMT1C; C6orf30; FLJ35547; DKFZp686H08213; G9A histone methyltransferase; H3-K9-HMTase 3; HLA-B associated transcript 8; ankyrin repeat-containing protein; histone H3-K9 methyltransferase 3; lysine N-methyltransferase 1C; protein G9a; EC 2.1.1.43 |
| <b>Gene ID</b>             | 10919                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_006709                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_006700                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>                 | 604599                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | Q96KQ7                                                                                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 6p21.31                                                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | Lysine degradation                                                                                                                                                                                                                                                                                                              |
| <b>Function</b>            | histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; protein binding; transferase activity; zinc ion binding                                                                                                                                                                             |

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on 2o8j.



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