

## Recombinant Mouse HIST1H1A Protein (2-213 aa), GST-tagged

**Cat. No.** HIST1H1A-552M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse HIST1H1A Protein (2-213 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Protein Description: Full Length of Mature Protein.                                                                                                                                                                  |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 2-213 aa                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber. Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers. Acts also as a regulator of individual gene transcription through chromatin modeling, nucleosome spacing and DNA methylation. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 48.7 kDa                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | SETAPVAQAASTATEKPAAAKKTKKPAKAAAPRKKPAGPSVSELIVQAVSSSKERSG<br>VSLAALKKSLAAAGYDVEKNNRIKGLKSLVNGTLVQTKGTGAAGSFKLNKKAES<br>KAITTKVSVKAKASGAACKPKKTAGAAAKKTVKTPKKPKKPAVSKKTSKSPKKPKVV<br>KAKKVAKSPAKAKAVKPKASKAKVTKPKTPAKPKKAAPKKK                                                                                                                                        |

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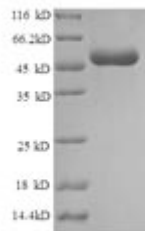
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>          | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b>    | A hardcopy of COA with concentration instruction is sent along with the products.                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>        | <a href="#">Hist1h1a histone cluster 1, H1a [ Mus musculus ]</a>                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b>  | <a href="#">HIST1H1A</a>                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>         | HIST1H1A; histone H1.1; H1 VAR.3; H1a; H1.1; H1f1; H1var3;                                                                                                                                                                                                                                                          |
| <b>Gene ID</b>          | <a href="#">80838</a>                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>      | <a href="#">NM_030609</a>                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>   | <a href="#">NP_085112</a>                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>       | <a href="#">P43275</a>                                                                                                                                                                                                                                                                                              |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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