

## Recombinant Human HS3ST1 Protein, GST-tagged

**Cat. No.** HS3ST1-5049H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human HS3ST1 full-length ORF ( NP_005105.1, 1 a.a. - 307 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. The enzyme encoded by this gene is a member of the heparan sulfate biosynthetic enzyme family. It possesses both heparan sulfate glucosaminyl 3-O-sulfotransferase activity, anticoagulant heparan sulfate conversion activity, and is a rate limiting enzyme for synthesis of anticoagulant heparan. This enzyme is an intraluminal Golgi resident protein. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 62.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MAALLLGAVLLVAQPQLVPSRPAELGQQELLRKAGTLQDDVRDGVAPNGSAQQLP<br>QTIIGVRKGGTRALLEMLSLHPDVAANAENEVHFFDWEESHYSHGLGWYLSQMPFSW<br>PHQLTVEKTPAYFTSPKVPERVYSMNPSIRLLLILRDPSEVLSDYTQVFYNHMQKH<br>KPYPSEIEFLVRDGRNLNVDYKALNRSLYHVHMQNWLRRFFPLRHHIVDGDRLIRDPPF<br>EIQKVERFLKLSPQINASFYFNKTKGFYCLRDSDGRDRCLHESKGRAHPQVDPKLLN<br>KLHEYFHEPNKKFFELVGRTFDWH                                                                                                                                                                                                                  |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

 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

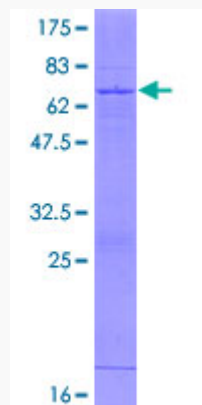
|                         |                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                 |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                    |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>        | HS3ST1 heparan sulfate (glucosamine) 3-O-sulfotransferase 1 [ Homo sapiens ]                                                                                                                                                                                                               |
| <b>Official Symbol</b>  | HS3ST1                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | HS3ST1; heparan sulfate (glucosamine) 3-O-sulfotransferase 1; heparan sulfate glucosamine 3-O-sulfotransferase 1; 3OST1; 3-OST-1; h3-OST-1; heparan sulfate 3-O-sulfotransferase 1; heparin-glucosamine 3-O-sulfotransferase; heparan sulfate D-glucosaminyl 3-O-sulfotransferase 1; 3OST; |
| <b>Gene ID</b>          | 9957                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>      | NM_005114                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_005105                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>              | 603244                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>       | O14792                                                                                                                                                                                                                                                                                     |

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**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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