

# Recombinant Full Length Human HS3ST3A1 Protein, GST-tagged

**Cat. No.** HS3ST3A1-3696HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human HS3ST3A1 full-length ORF ( NP_006033.1, 1 a.a. - 406 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 406 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <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 is a type II integral membrane protein and possesses heparan sulfate glucosaminyl 3-O-sulfotransferase activity. The sulfotransferase domain of this enzyme is highly similar to the same domain of heparan sulfate D-glucosaminyl 3-O-sulfotransferase 3A1, and these two enzymes sulfate an identical disaccharide. This gene is widely expressed, with the most abundant expression in liver and placenta. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 71.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MAPPGPASALSTSAEPLSR SIFRKFLMLCSLLTSLYVFYCLAERCQTLSGPVVGLSG<br>GGEEAGAPGGGVLGGPRELAVWPAAAQRKRLQLPQWRRRRPPAPRDDGEEAA<br>WEEESPGLSGGPGGSGAGSTVAEAPPGTLALLLDEGSKQLPQAIIGVKKGGTRALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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EFLRVHPDVRAVGAEPHFFDRSYDKGLAWYRDLMPTLDGQITMEKTPSYFVTREA  
 PARISAMSKDTKLIVVVRDPVTRAISDYTQTLKRDPDIPTFESLTFKNRTAGLIDTSWS  
 AIQIGIYAKHLEHWLRHFPIRQMLFVSGERLISDPAGELGRVQDFLGLKRIITDKHFYF  
 NKTKGFPCLKKAEGSSRPCLGKTKGRTHPEIDREVVRRLREFYRPFNLKFYQMTG  
 HDFGWDG

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

HS3ST3A1 heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1 [ Homo sapiens ]

**Official Symbol**

HS3ST3A1

**Synonyms**

HS3ST3A1; heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1; heparan sulfate glucosamine 3-O-sulfotransferase 3A1; 3OST3A1; 3OST3A1; 3-OST-3A; h3-OST-3A; heparan sulfate 3-O-sulfotransferase 3A1; heparin-glucosamine 3-O-sulfotransferase; heparan sulfate D-glucosaminy 3-O-sulfotransferase 3A1;

**Gene ID**

9955

**mRNA Refseq**

NM\_006042

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|                |           |
|----------------|-----------|
| Protein Refseq | NP_006033 |
| MIM            | 604057    |
| UniProt ID     | Q9Y663    |

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