

## Recombinant Human GAL3ST1 Protein, GST-tagged

**Cat. No.** GAL3ST1-4672H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Human GAL3ST1 full-length ORF ( AAH14649.1, 1 a.a. - 423 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Sulfonation, an important step in the metabolism of many drugs, xenobiotics, hormones, and neurotransmitters, is catalyzed by sulfotransferases. The product of this gene is galactosylceramide sulfotransferase which catalyzes the conversion between 3-phosphoadenylylsulfate + a galactosylceramide to adenosine 3,5-bisphosphate + galactosylceramide sulfate. Activity of this sulfotransferase is enhanced in renal cell carcinoma. [provided by RefSeq]  |
| <b>Molecular Mass</b>   | 75.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MLPPQKKPWESMAKGLVLGALFTSFLLLMYSYAVPPLHAGLASTTPEAAASCSPPAL<br>EPEAVIRANGSAGECQPRRNIVFLKTHKTASSTLLNILFRFGQKHRLKFAFPNGRNDF<br>DYPTFFARSLVQDYRPGACFNICNHMRPHYDEVRLVPTNAIFITVLRDPARLFESS<br>FHYFGPVVPLTWKLSAGDKLTEFLQDPDRYYDPNGFNAYLRNLLFFDLGYDNSLD<br>PSSPQVQEHIIEVERRFHLVLLQEYFDESLVLLKDLLCWELEDVLYFKLNARRDSPV<br>PRLSGELYGRATAWNMLDSHLYRHFNASFWRKVEAFGRERMAREVAALRHANER<br>MRTICIDGGHAVDAAAIQDEAMQPWQPLGTKSILGYNLKKSIGQRHAQLCRRMLTPE<br>IQYLMDLGANLWVTKLWKFIRDFLRW |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>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 -80 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>        | <a href="#">GAL3ST1 galactose-3-O-sulfotransferase 1 [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b>  | <a href="#">GAL3ST1</a>                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>         | GAL3ST1; galactose-3-O-sulfotransferase 1; galactosylceramide sulfotransferase; cerebroside (3 phosphoadenylylsulfate:galactosylceramide 3) sulfotransferase; CST; GalCer sulfotransferase; cerebroside sulfotransferase; 3-phosphoadenosine-5-phosphosulfate:GalCer sulfotransferase; 3-phosphoadenylylsulfate:galactosylceramide 3-sulfotransferase; cerebroside (3-phosphoadenylylsulfate:galactosylceramide 3) sulfotransferase; |
| <b>Gene ID</b>          | <a href="#">9514</a>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>      | <a href="#">NM_004861</a>                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>   | <a href="#">NP_004852</a>                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>              | <a href="#">602300</a>                                                                                                                                                                                                                                                                                                                                                                                                               |

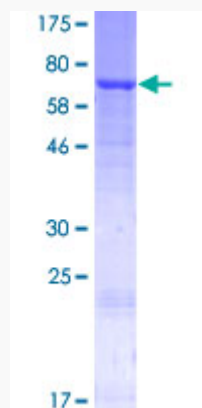
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**UniProt ID**

Q99999

**Quality Control  
Testing**

12.5% SDS-PAGE Stained with Coomassie Blue.

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