

# Recombinant Full Length Human GFPT1 Protein, GST-tagged

Cat. No. GFPT1-5429HF Lot. No. (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Human GFPT1 full-length ORF (AAH45641.1, 1 a.a. - 681 a.a.) recombinant protein with GST tag at N-terminal.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | In Vitro Cell Free System   |
| <b>Protein Length</b>   | 681 amino acids   |
| <b>Description</b>      | This gene encodes the first and rate-limiting enzyme of the hexosamine pathway and controls the flux of glucose into the hexosamine pathway. The product of this gene catalyzes the formation of glucosamine 6-phosphate. [provided by RefSeq]  |
| <b>Molecular Mass</b>   | 103.2 kDa   |
| <b>AA Sequence</b>      | MCGIFAYLNYHVPRTTRREILETLIKGLQRLEYRGYDSAGVGFDDGGNDKDWEANACKI<br>QLIKKKGKVKALDEEVHKQQDMDLDIEFDVHLGIAHTRWATHGEPSPVNSHPQRS<br>KNEFIVIHNGIITNYKDLKKFLESKGYDFESETDTETIAKLVKMYDNRESQDTSFTT<br>LVERVIQQLEGAFALVFKSVHFPQAVGTRRGSPLLIGVRSEHKLSTDHIPILYRTGK<br>DKKGSCNLSRVDSTTCLFPVEEKAVEYYFASDASAVIEHTNRVIFLEDDDDVAAVVDG<br>RLSIHRIKRTAGDHPGRAVQTLQMEELQIMKGNFSSFMQKEIFEQPEVNTMRGR<br>VNFDDYTVNLGGLKDHKEIQRCLILACGTSYHAGVATRQVLEELTELPVMVELA<br>SDFLDRNTPVFRDDVCFFLSQSGETADTLMLGLRYCKERGALTVGITNTVGSSISRET<br>DCGVHINAGPEIGVASTKAYTSQFVSLVMFALMMCDRISMQERRKEIMLGLKRLPD<br>LIKEVLSMDDEIQKLATELYHQKSVLIMGRGYHYATCLEGALKIKEITYMHSEGILAGE |

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LKHGPLALVDKLMFVIMIIMRDHTYAKCQNALQQVVARQGRPVICDKEDTETIKNTK  
RTIKVPHSVDCLQGILSVIPLQLLAFHLAVLRGYDVFPRNLAKSVTVE

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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.  |

## GENE INFORMATION

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|------------------------|---|
| <b>Gene Name</b>       | GFPT1 glutamine--fructose-6-phosphate transaminase 1 [ Homo sapiens ]   |
| <b>Official Symbol</b> | GFPT1   |
| <b>Synonyms</b>        | GFPT1; glutamine--fructose-6-phosphate transaminase 1; GFPT, glutamine fructose 6 phosphate transaminase 1; glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 1; GFA; GFAT; GFAT1; hexosephosphate aminotransferase 1; D-fructose-6-phosphate amidotransferase 1; glutamine:fructose 6 phosphate amidotransferase 1; GFPT; GFAT 1; GFAT1m; |
| <b>Gene ID</b>         | 2673  |
| <b>mRNA Refseq</b>     | NM_001244710  |
| <b>Protein Refseq</b>  | NP_001231639  |



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| <b>MIM</b> | 138292 |
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| <b>UniProt ID</b> | Q06210 |
|-------------------|--------|

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