

# Recombinant Human GSTT1, His-tagged

**Cat. No.** GSTT1-13582H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b> | Recombinant Human GSTT1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-240a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | The protein encoded by this gene binds the epidermal growth factor receptor and contains one SH2 domain and two SH3 domains. Its two SH3 domains direct complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences. This gene is similar to the Sem5 gene of C.elegans, which is involved in the signal transduction pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.                                                                                                                                                                                                                                                                                                                                  |

## GENE INFORMATION

|                  |                                                          |
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| <b>Gene Name</b> | GSTT1 glutathione S-transferase theta 1 [ Homo sapiens ] |
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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | GSTT1                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | GSTT1; glutathione S-transferase theta 1; glutathione S-transferase theta-1; GST class-theta-1; glutathione transferase T1-1;                                                                                                                                                                                                                                                                                                |
| <b>Gene ID</b>             | 2952                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_000853                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_000844                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 600436                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | P30711                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 22q11.23                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem; |
| <b>Function</b>            | glutathione peroxidase activity; glutathione transferase activity; glutathione transferase activity; transferase activity;                                                                                                                                                                                                                                                                                                   |