

## Recombinant Human GSTT1, His-tagged

**Cat. No.** GSTT1-26091TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human Glutathione S Transferase theta 1 fused to His tag at N-terminus; 31.5kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>Glutathione S-transferase (GST) theta 1 (GSTT1) is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes: alpha, mu, pi, theta, and zeta. The theta class includes GSTT1 and GSTT2. The GSTT1 and GSTT2 share 55% amino acid sequence identity and both of them were claimed to have an important role in human carcinogenesis. The GSTT1 gene is located approximately 50kb away from the GSTT2 gene. The GSTT1 and GSTT2 genes have a similar structure, being composed of five exons with identical exon/intron boundaries.</p>
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Found in erythrocyte. Expressed at low levels in liver. In lung, expressed at low levels in Clara cells and ciliated cells at the alveolar/bronchiolar junction. Absent from epithelial cells of larger bronchioles.
<b>Form</b>	Liquid

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMGL ELYLDLLSQP CRAVYIFAKK NDIPFELRIV DLIKGQHLSD ACAQVNPLKK VPALKDGDFT LTVSVAIILY LTRKYKVPDY WYPQDLQARA RVDEYLAWQH TTLRRSCLRA LWHKVMFPVF LGPEVSPQTL AATLAELDVT LQLEDKFLQ NKAFLTGPHI SLADLVAITE LMHPVGAGCQ VFEGRPKLAT WRQRVEAAVG EDLFQEAHEV ILKAKDFPPA DPTIKQKLMP WVLAMIR
<b>Sequence Similarities</b>	Belongs to the GST superfamily. Theta family. Contains 1 GST C-terminal domain. Contains 1 GST N-terminal domain.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GSTT1 glutathione S-transferase theta 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">GSTT1</a>
<b>Synonyms</b>	GSTT1; glutathione S-transferase theta 1; glutathione S-transferase theta-1;
<b>Gene ID</b>	<a href="#">2952</a>
<b>mRNA Refseq</b>	<a href="#">NM_000853</a>

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<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;
<b>Function</b>	glutathione peroxidase activity; glutathione transferase activity; glutathione transferase activity; transferase activity;

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