

Recombinant Human GSTT1, His-tagged

Cat. No. GSTT1-28121TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Glutathione S Transferase theta 1 with a N terminal His tag; a single, non-glycosylated, polypeptide chain; 277 amino acids including tag; predicted Mwt: 31.5kDa inclusive of tag.
Species	Human
Source	E.coli
ProteinLength	240 amino acids
Description	<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>
Conjugation	HIS
Molecular Weight	31.500kDa inclusive of tags
Tissue specificity	Found in erythrocyte. Expressed at low levels in liver. In lung, expressed at low levels

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in Clara cells and ciliated cells at the alveolar/bronchiolar junction. Absent from epithelial cells of larger bronchioles.

Form

Liquid

Purity

>95% by SDS-PAGE

Storage buffer

pH: 8.00 Constituents: 10% Glycerol, 0.32% Tris HCl

Storage

Please see Notes section

Sequences of amino acids

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMGL ELYLDLLSQP
 CRAVYIFAKK NDIPFELRIV DLIKGQHLSD ACAQVNPLKK VPALKDGDFT
 LTESVAILLY LTRKYKVPDY WYPQDLQARA RVDEYLAWQH TTLRRSCLRA
 LWHKVMFPVF LGEPVSPQTL AATLAELDVT LQLEDKFLQ NKAFLTGPHI
 SLADLVAITE LMHPVGAGCQ VFEGRPKLAT WRQRVEAAVG EDLFQEAHEV
 ILKAKDFPPA DPTIKQKLMP WVLAMIR

Sequence Similarities

Belongs to the GST superfamily. Theta family. Contains 1 GST C-terminal domain. Contains 1 GST N-terminal domain.

GENE INFORMATION

Gene Name

[GSTT1 glutathione S-transferase theta 1 \[Homo sapiens \]](#)

Official Symbol

[GSTT1](#)

Synonyms

GSTT1; glutathione S-transferase theta 1; glutathione S-transferase theta-1;

Gene ID

[2952](#)

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mRNA Refseq	NM_000853
Protein Refseq	NP_000844
MIM	600436
Uniprot ID	P30711
Chromosome Location	22q11.23
Pathway	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;
Function	glutathione peroxidase activity; glutathione transferase activity; glutathione transferase activity; transferase activity;

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