Recombinant Human GSTT1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length human Glutathione S Transferase theta 1 fused to His tag at N-terminus; 31.5kDa.
Species	Human
Source	E.coli
Description	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.
Conjugation	HIS
Tissue specificity	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.
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMGL ELYLDLLSQP CRAVYIFAKK NDIPFELRIV DLIKGQHLSD ACAQVNPLKK VPALKDGDFT LTESVAILLY LTRKYKVPDY WYPQDLQARA RVDEYLAWQH TTLRRSCLRA LWHKVMFPVF LGEPVSPQTL AATLAELDVT LQLLEDKFLQ 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.
Full Length	Full L.

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
mRNA Refseq	NM_000853

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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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